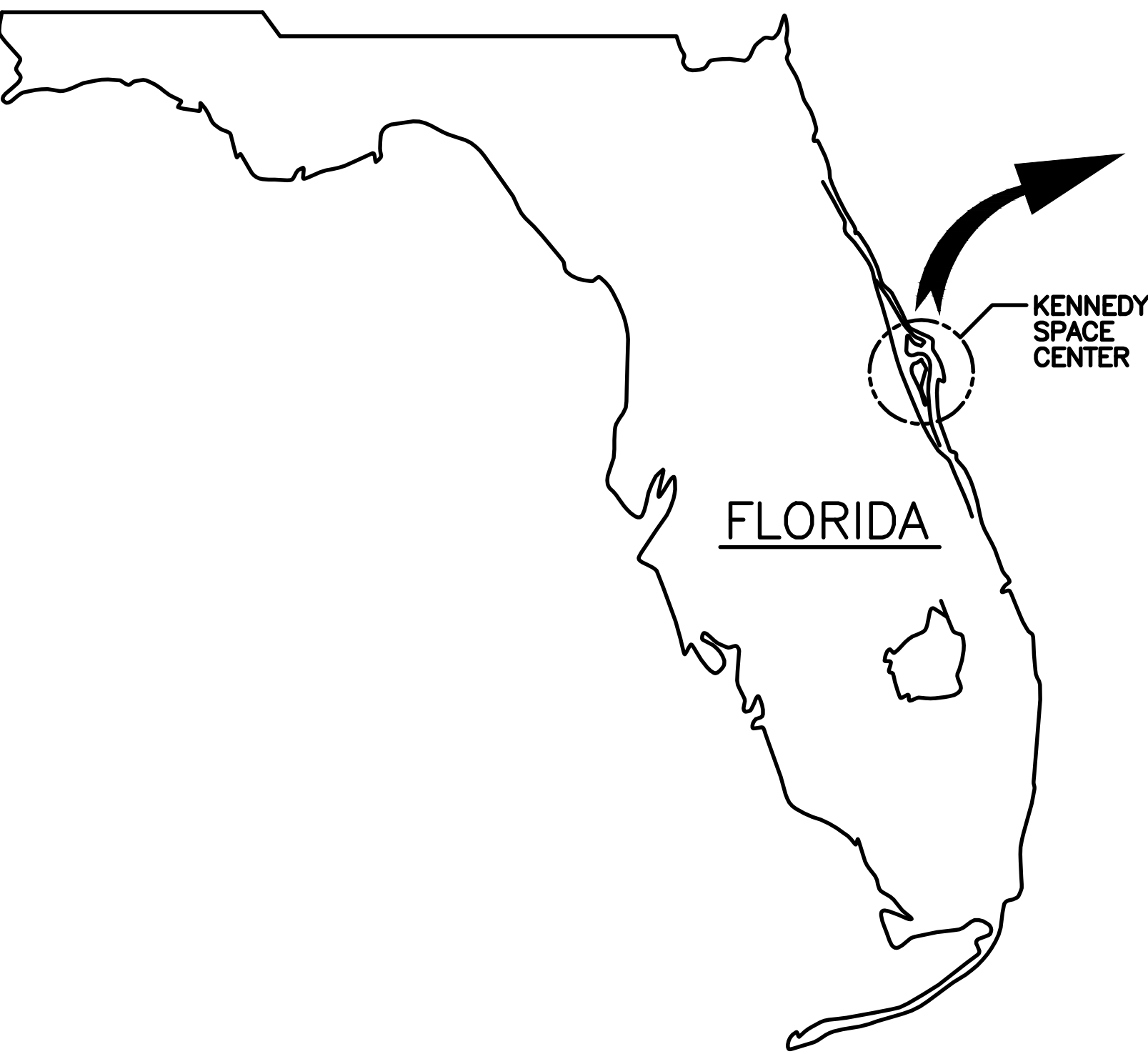


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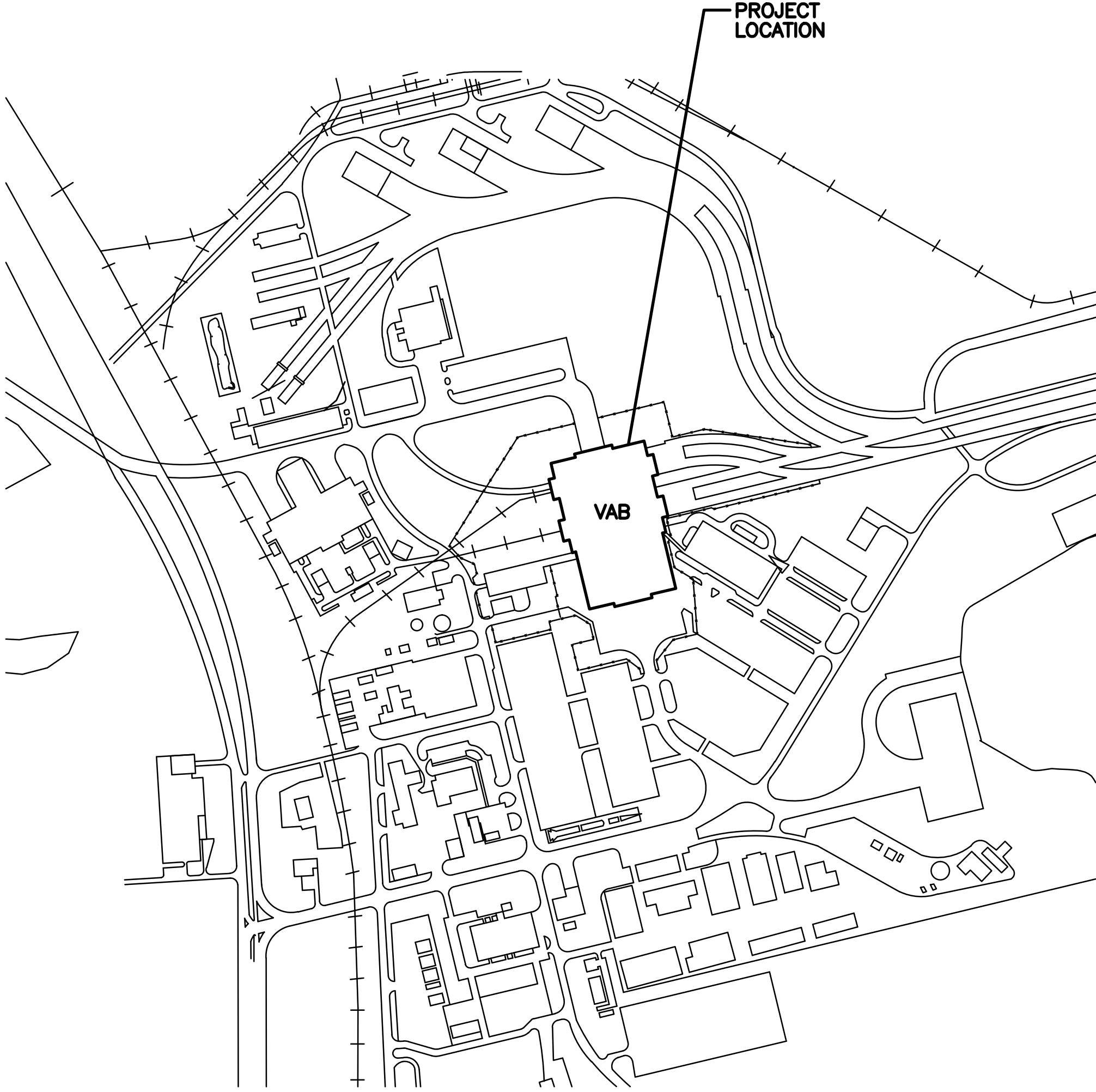
LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS

NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION

John F. Kennedy Space Center
Kennedy Space Center, Florida 32899



AREA MAP
NO SCALE



LOCATION MAP
NO SCALE

TECHNICAL SPECIFICATION No. 79K39666
DATA MANUAL: KSC-TA-12243
DATE: AUGUST 20, 2013



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| | |
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| ASBESTOS IDENTIFIED | |
| <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| IF THE CONTRACTOR SUSPECTS THE PRESENCE OF ANY ASBESTOS CONTAMINATED MATERIAL NOT IDENTIFIED ON THESE DRAWINGS, BUT IS REQUIRED TO BE DISTURBED TO PERFORM THE CONTRACT WORK, INFORM THE CONTRACTING OFFICER AT ONCE. | |
| HEAVY METALS IDENTIFIED | |
| <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| IF THE CONTRACTOR SUSPECTS THE PRESENCE OF ANY HEAVY METAL COATING MATERIAL NOT IDENTIFIED ON THESE DRAWINGS, BUT IS REQUIRED TO BE DISTURBED TO PERFORM THE CONTRACT WORK, INFORM THE CONTRACTING OFFICER AT ONCE. | |

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| DOCUMENT INFORMATION: (TITLE, NUMBER, REV, DATE) MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS, PCN 99000.5, REV BASIC, AUGUST 20, 2013 | | |
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| CHECKED: RICHARD PRUSS | | 08-20-2013 | LAUNCH COMPLEX 39 | |
| SUBMITTED: ROBERT PRUSS | | | VEHICLE ASSEMBLY BUILDING | |
| APPROVED: JOHN KERCSMAR | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS | |
| SONIA MILLER | | | COVER SHEET | |
| WALLACE SCHROEDER | | | FILE NO. 302-6058-043 SIZE E TOWNSHIP NO. 79K39665 PROJ. NO. PCN 99000.5 SHEET 1 OF 35 | |

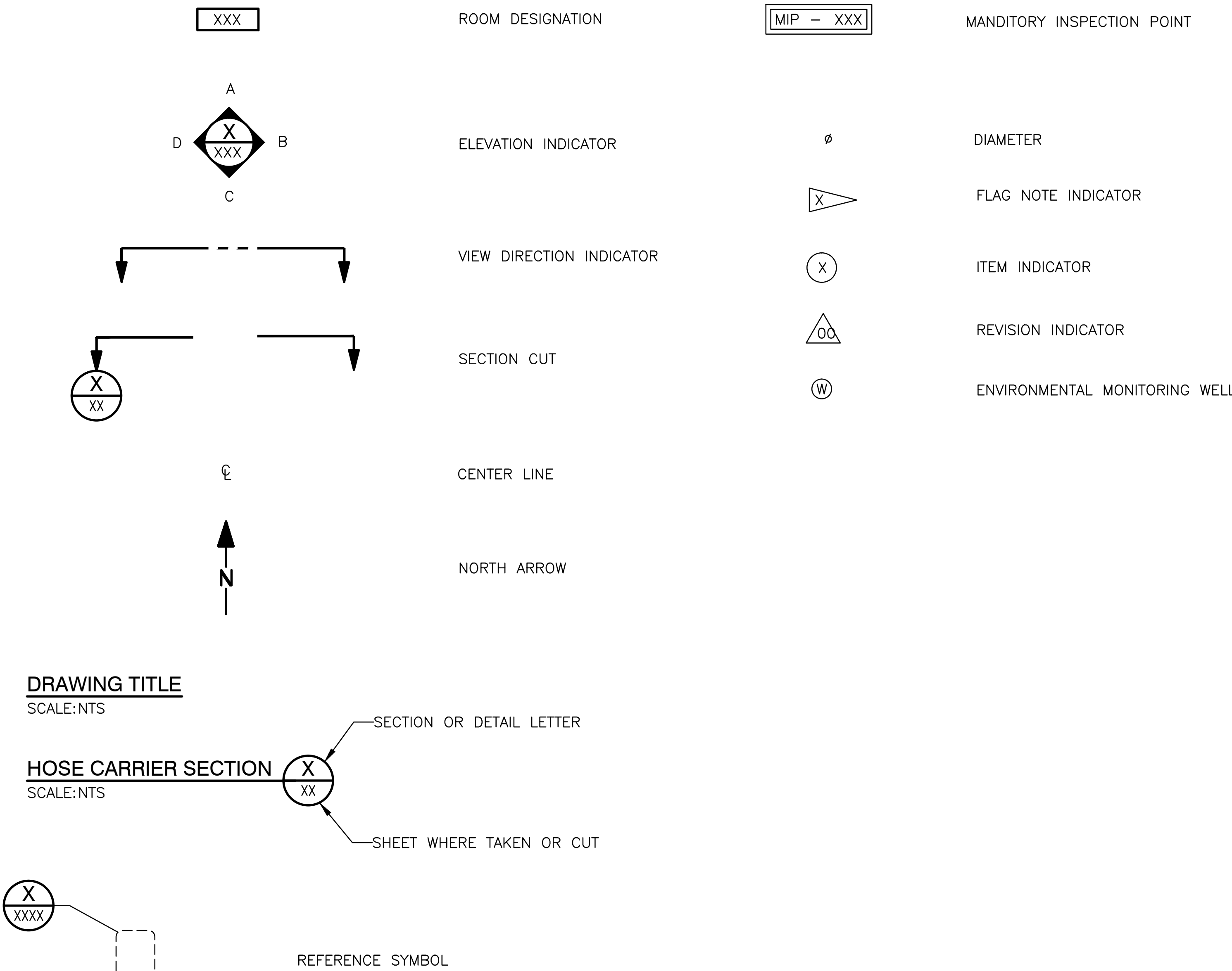
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| DRAWING INDEX | | | |
|---------------|---------------|-----------------|---|
| SHEET NUMBER | FUNCTION CODE | REVISION STATUS | SHEET TITLE |
| GENERAL | | | |
| 1 | V-001 | | COVER SHEET |
| 2 | V-002 | | DRAWING INDEX, GENERAL SYMBOLS AND ABBREVIATIONS |
| 3 | V-003 | | LAYDOWN WORK LOCATIONS |
| 4 | V-004 | | ELEVATOR PLATFORM OPERATIONS PLAN |
| ENVIRONMENTAL | | | |
| 5 | EN-001 | | METALS, PCBS, AND ASBESTOS SCHEDULES AND NOTES |
| ARCHITECTURAL | | | |
| 6 | A-001 | | ABBREVIATIONS, SYMBOLS AND GENERAL NOTES |
| 7 | AD-100 | | ELEVATOR LANDING DEMOLITION PLANS -1 |
| 8 | AD-101 | | ELEVATOR LANDING DEMOLITION PLANS -2 |
| 9 | AD-102 | | ELEVATOR LANDING DEMOLITION PLANS -3 |
| 10 | A-100 | | ELEVATOR LANDING PLATFORMS TYPICAL PLANS AND DETAILS |
| 11 | A-500 | | ELEVATOR LANDING PLATFORMS DETAILS AND DOOR SCHEDULE |
| 12 | A-501 | | GUARDRAIL AND MISCELLANEOUS DETAILS |
| STRUCTURAL | | | |
| 13 | S-001 | | STRUCTURAL GENERAL NOTES |
| 14 | S-600 | | ELEVATOR LANDING PLAN |
| 15 | S-601 | | ELEVATOR LANDING DETAILS -1 |
| 16 | S-602 | | ELEVATOR LANDING DETAILS -2 |
| 17 | S-603 | | ELEVATOR LANDING DETAILS -3 |
| 18 | S-604 | | ELEVATOR LANDING DETAILS -4 |
| 19 | S-605 | | ELEVATOR LANDING DETAILS -5 |
| 20 | S-606 | | ELEVATOR LANDING DETAILS -6 |
| 21 | S-607 | | ELEVATOR LANDING DETAILS -7 |
| MECHANICAL | | | |
| 22 | M-401 | | ELEVATOR PLATFORM MECHANICAL GENERAL NOTES/LIFTING LUG ASSEMBLY - 1 |
| 23 | M-402 | | ELEVATOR PLATFORM LIFTING LUG ASSEMBLY - 2 |
| 24 | M-403 | | ELEVATOR PLATFORM LIFTING LUG ASSEMBLY DETAILS - 1 |
| 25 | M-404 | | ELEVATOR PLATFORM LIFTING LUG ASSEMBLY DETAILS - 2 |
| ELECTRICAL | | | |
| 26 | E-001 | | ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS |
| 27 | ED-100 | | ELEVATOR LANDINGS - ELECTRICAL DEMOLITION PLANS |
| 28 | ED-101 | | ELEVATOR LANDINGS - ELECTRICAL DEMOLITION PLANS |
| 29 | ED-102 | | ELEVATOR LANDINGS - ELECTRICAL DEMOLITION PLANS |
| 30 | ED-500 | | ELECTRICAL DEMOLITION ELEVATOR PLATFORM - DETAILS 1 |
| 31 | ED-501 | | ELECTRICAL DEMOLITION ELEVATOR PLATFORM - DETAILS 2 |
| 32 | E-100 | | ELEVATOR LANDINGS - ELECTRICAL PLAN |
| 33 | E-550 | | ELEVATOR PLATFORM - ELECTRICAL DETAILS |
| 34 | E-670 | | PANEL SCHEDULES - SHEET 1 |
| 35 | E-671 | | PANEL SCHEDULES - SHEET 2 |

ABBREVIATIONS

| | |
|---------|---|
| ACM | ASBESTOS CONTAINING MATERIAL |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| AMP | AMPERES |
| ASD | ALLOWABLE STRENGTH DESIGN |
| ASTM | AMERICAN SOCIETY for TESTING and MATERIALS |
| AWS | AMERICAN WELDING SOCIETY |
| CKT | CIRCUIT |
| CKT BKR | CIRCUIT BREAKER |
| CRF | CODE OF FEDERAL REGULATIONS |
| DEG | DEGREE(S) |
| DIA | DIAMETER |
| DWG(S) | DRAWING(S) |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ELEV | ELEVATOR |
| EQ | EQUAL |
| EST | ESTIMATE |
| ETC | ET CETERA |
| EXST | EXISTING |
| FAC | FACILITY |
| FJ | FIELD JOINT |
| FT | FOOT |
| GA | GAGE |
| GND | GROUND |
| GR | GRADE |
| HDG | HOT DIPPED GALVANIZED |
| HDP | HOLDDOWN POST |
| HMP | HOMOGENEOUS MATERIAL PAINT |
| HSS | HOLLOW STRUCTURAL SQUARE AND RECTANGULAR SECTIONS |
| HT | HEIGHT |
| ICPS | INTERIM CRYOGENIC PROPULSION STAGE |
| ID | INSIDE DIAMETER |
| KG | KILOGRAM |
| KIP | KILOPOUND |
| KV | KILOVOLTS |
| KVA | KILOVOLT-AMPERES |
| KW | KILOWATTS |
| LAS | LAUNCH ABORT SYSTEM |
| LB | POUND |
| LBS | POUNDS |
| LVL | LEVEL |
| LVSA | LAUNCH VEHICLE STAGE ADAPTER |
| MAX | MAXIMUM |
| MCB | MAIN CIRCUIT BREAKER |
| MG | MILLIGRAM |
| MIN | MINIMUM |
| MLB | MOBILE LAUNCHER BASE |
| NEC | NATIONAL ELECTRIC CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NIC | NOT IN CONTRACT |
| NO | NUMBER/NORMALLY OPEN |
| NTS | NOT TO SCALE |
| OAE | OR APPROVED EQUAL |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OPP | OPPOSITE |
| P/N | PART NUMBER |
| PCB | POLYCHLORINATED BYPHENOLS |
| PLCS | PLACES |
| PL | PLATE |
| PLATF | PLATFORM |
| QTY | QUANTITY |
| RCPT | RECEPTACLE |
| REF | REFERENCE |
| RGC | RIGID GALVANIZED CONDUIT |
| SCH | SCHEDULE |
| SIM | SIMILAR |
| SLV | SHORT LEG VERTICAL |
| SQFT | SQUARE FOOT / FEET |
| SRM | SOLID ROCKET MOTER |
| SST | STAINLESS STEEL |
| STD | STANDARD |
| SYM | SYMBOL |
| TBD | TO BE DETERMINED |
| TOS | TOP OF STEEL |
| TYP | TYPICAL |
| UG | MICROGRAM |
| UHMW | ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE |
| UNC | UNIFIED COARSE |
| UNF | UNIFIED FINE |
| V | VOLT |
| VAB | VEHICLE ASSEMBLY BUILDING |
| VAC | VOLTS, AC |
| VIF | VERIFY IN FIELD |
| WF | WIDE FRAME |
| " | INCH(ES) |
| ' | FOOT(FEET) |

DRAWING SYMBOLS



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| DRAWN: BRIAN CURTIS | 08-20-2013 | | | |
| CHECKED: RICHARD PRUSS | 08-20-2013 | | | |
| SUBMITTED: AGENT OF RECORD | | | | |
| ROBERT PRUSS | | | | |
| ST. OF LICENSURE: FL | | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERESMAR | | FILE NO. | SIZE | DWG. NO. |
| | | 302-6058-043 | E | 79K39665 |
| MIKE HARTNETT | | PROJ. NO. | PCN | 99000.5 |
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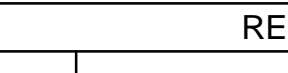


CONSTRUCTION SITE AND LAYDOWN AREA

SCALE: NTS

NOTES:

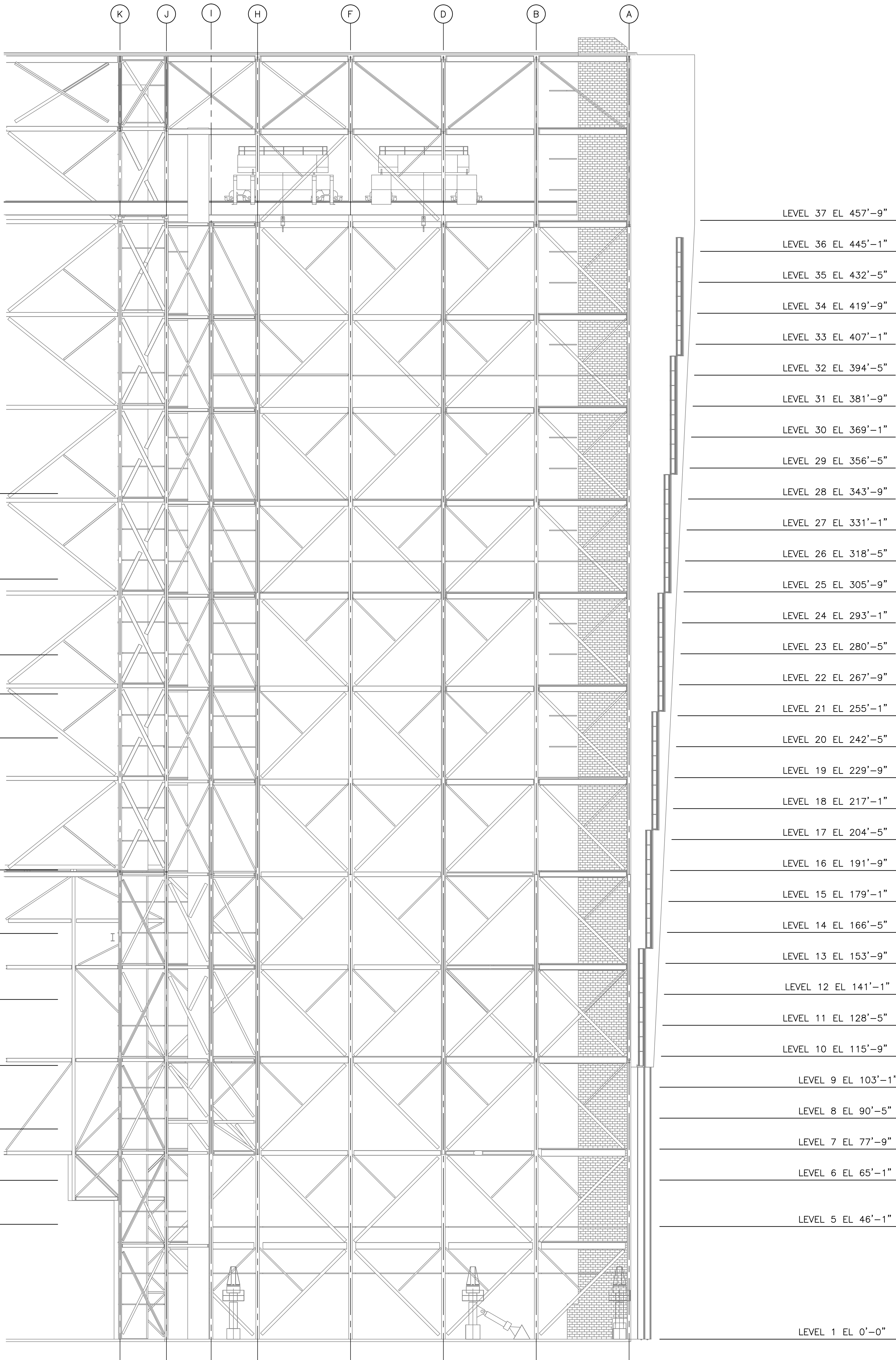
1. CONTRACTOR USE OF LAYDOWN AREAS SHALL ENSURE STORMWATER DRAINAGE TO COLLECTION AREAS ARE NOT IMPEDED. LAYDOWN AREAS SHALL NOT BE USED TO PERFORM ABRASIVE/WATER BLASTING, PAINTING, WELDING, CUTTING, ETC. WITHOUT APPROVAL FROM THE CONTRACTING OFFICER AND CONCURRENCE FROM THE NASA ENVIRONMENTAL ASSURANCE BRANCH.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES, INCLUDING ENVIRONMENTAL MONITORING WELLS. PROTECT THEM IN PLACE AND MAINTAIN THEM IN SERVICE AT ALL TIMES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER OF ANY UTILITY DAMAGED BY CONSTRUCTION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RETURNING UTILITIES TO SERVICE AS SOON AS POSSIBLE AFTER THE OCCURRENCE OF DAMAGE OR SERVICE OUTAGE.
3. CONTRACTOR SHALL SUBMIT, FOR APPROVAL, A PLAN TO STABILIZE ALL REQUIRED AREAS TO BE USED FOR HEAVY EQUIPMENT TRAVEL/PARKING. PLAN SHALL INCLUDE, AT A MINIMUM, CONSTRUCTION SITE, ALL LAYDOWN AREAS, AND ACCESS TO THOSE AREAS. AS REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM NECESSARY STABILIZATION PER THE APPROVED PLAN PRIOR TO LOCATING ANY HEAVY EQUIPMENT ON SITE.
4.  INDICATES CONSTRUCTION SITE AND LAYDOWN AREAS.
5. CONTRACTOR SHALL USE TOWWAY FROM KENNEDY PARKWAY FOR PRIMARY INGRESS AND EGRESS TO AND FROM THE CONSTRUCTION SITE.
6. PARKING LOCATIONS FOR CONTRACTOR PERSONNEL SHALL BE COORDINATED WITH THE CONTRACTING OFFICER.
7. CONTRACTOR TRAILER LOCATIONS SHALL BE COORDINATED WITH THE CONTRACTING OFFICER.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL UTILITY HOOKUPS TO CONSTRUCTION TRAILERS. UTILITY POINTS OF CONNECTION SHALL BE COORDINATED WITH THE CONTRACTING OFFICER.
9. AREA DISTURBED DURING DEMOLITION AND CONSTRUCTION SHALL BE RE-GRADED TO MATCH ADJACENT TOPOGRAPHY. ALL DISTURBED AREAS ON SITE SHALL RECEIVE GROUND COVER TO MATCH EXISTING PRIOR TO COMPLETION OF CONSTRUCTION.
10.  INDICATES ENVIRONMENTAL WELL LOCATIONS. CONTRACTOR SHALL PROTECT ENVIRONMENTAL MONITORING WELLS IN PLACE. DAMAGED ENVIRONMENTAL MONITORING WELLS WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE GOVERNMENT. ENVIRONMENTAL MONITORING WELL LOCATIONS SHOWN ON THIS SHEET ARE APPROXIMATE.

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| CHECKED: RICHARD YOUNG | | 08-20-2013 | | |
| SUBMITTED: ARCHIVING OF RECORD | | | | |
| ROBERT PRUSS | | | | |
| ST OF LICENSE: FL | | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERSCMAR | | | | |
| MIKE HARTNETT | | | | |
| | | <div> NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS </div> | | |
| | | LAYDOWN WORK LOCATIONS | | |
| FILE NO. | | SIZE | DWG. NO. | REV |
| 302-6058-043 | | E | 79K39665 | |
| PROJ. NO. | | PCN | 9900.5 | SHEET 3 OF |

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LAS AUXILIARY (A)
EL 346'-0"

OGIVE UMBILICAL ACCESS (B)
EL 311'-0"

ICPS-SM FJ ACCESS (C)
EL 280'-0"

LVSA-ICPS ACCESS (D)
EL 264'-0"

CORE LVSA ACCESS (E)
EL 246'-0"

FS-F SRM FJ ACCESS (F)
EL 192'-0"

F-FC SRM FJ ACCESS (G)
EL 166'-0"

FC-C SRM FJ ACCESS (H)
EL 139'-0"

C-AC SRM FJ ACCESS (J)
EL 112'-0"

AC-A SRM FJ ACCESS (K)
EL 86'-0"

SRB LOWER ACCESS (K1)
EL 65'-0"

MLB DECK "0" EL 47'-0"
(NO ELEVATOR LANDING PROVIDED FOR THIS ELEVATION)

LEVEL 37 EL 457'-9"

LEVEL 36 EL 445'-1"

LEVEL 35 EL 432'-5"

LEVEL 34 EL 419'-9"

LEVEL 33 EL 407'-1"

LEVEL 32 EL 394'-5"

LEVEL 31 EL 381'-9"

LEVEL 30 EL 369'-1"

LEVEL 29 EL 356'-5"

LEVEL 28 EL 343'-9"

LEVEL 27 EL 331'-1"

LEVEL 26 EL 318'-5"

LEVEL 25 EL 305'-9"

LEVEL 24 EL 293'-1"

LEVEL 23 EL 280'-5"

LEVEL 22 EL 267'-9"

LEVEL 21 EL 255'-1"

LEVEL 20 EL 242'-5"

LEVEL 19 EL 229'-9"

LEVEL 18 EL 217'-1"

LEVEL 17 EL 204'-5"

LEVEL 16 EL 191'-9"

LEVEL 15 EL 179'-1"

LEVEL 14 EL 166'-5"

LEVEL 13 EL 153'-9"

LEVEL 12 EL 141'-1"

LEVEL 11 EL 128'-5"

LEVEL 10 EL 115'-9"

LEVEL 9 EL 103'-1"

LEVEL 8 EL 90'-5"

LEVEL 7 EL 77'-9"

LEVEL 6 EL 65'-1"

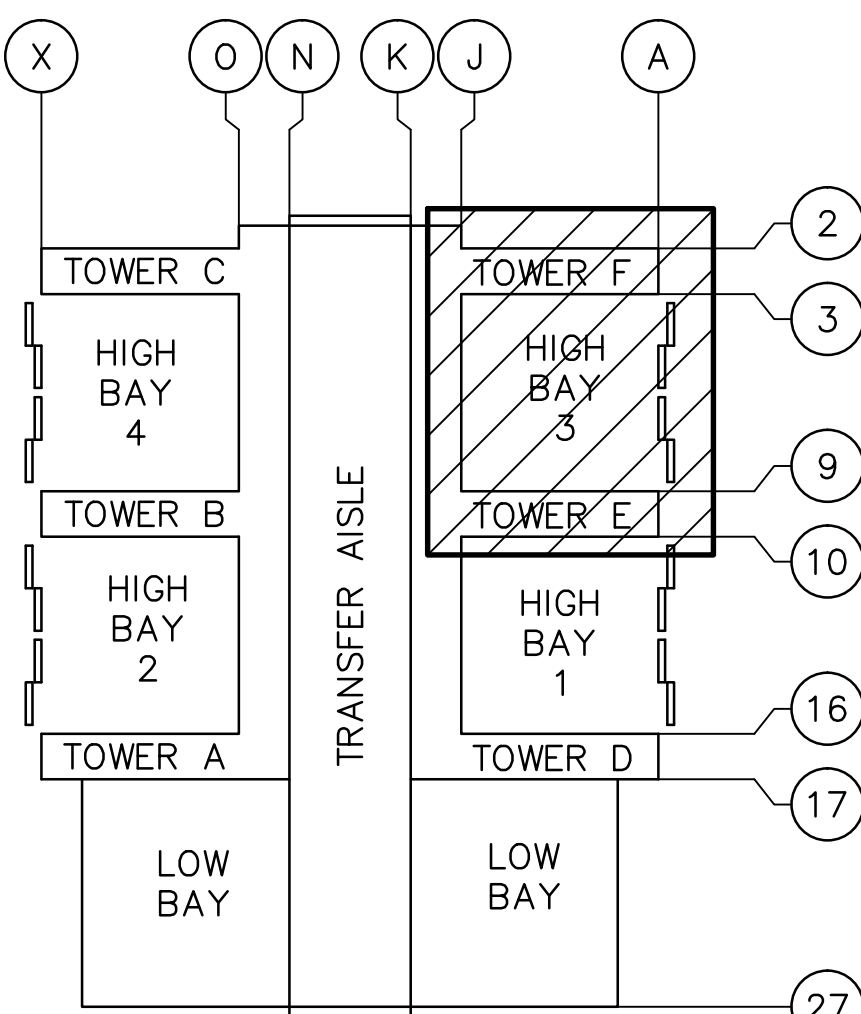
LEVEL 5 EL 46'-1"

LEVEL 1 EL 0'-0"

BUILDING SECTION (ALONG COLUMN LINE 6 LOOKING NORTH)
SCALE: 1"=20'

ELEVATOR PLATFORM INSTALLATION:

- WARNING: THE FOLLOWING STEPS ARE HAZARDOUS. TASK LEADER TO CONDUCT A PRETASK BRIEFING.
- NOTE: ELEVATOR HOIST(S) HAVE A TRAVEL DISTANCE OF 85'.
- NOTE: DURING THE INITIAL PLATFORM LIFT THERE IS NO EMERGENCY STOP OR LIGHTING ON THE ELEVATOR PLATFORM.
- NOTE: TEMPORARY REMOVAL OF VAB LEVEL 5 ELEVATOR LANDING MAY BE REQUIRED FOR THE REMOVAL OF THE EXISTING ELEVATOR LANDING PLATFORMS AND INSTALLATION OF THE NEW/MODIFIED ELEVATOR LANDING PLATFORMS ABOVE.
1. POSITION THE ELEVATOR PLATFORM IN THE HIGH BAY(S) WHERE THEY WILL BE INSTALLED.
 2. VERIFY THAT THE PLATFORM LIFTING ASSEMBLY PINS ARE FULLY RETRACTED (4 PLACES).
 3. INSTALL THE FALL ARREST POSTS ONTO THE PLATFORM.
 4. VERIFY/PERFORM THAT THE CORBEL PINS ARE IN THE RETRACTED POSITION (NOT ENGAGED THROUGH THE CORBEL PLATES) (8 PLACES).
- NOTE: SEE DRAWING 79K39667 SHEET M-816 FOR SLING SCHEDULE.
5. INSTALL ONE SET OF SLINGS ON THE HOIST HOOKS FROM THE SERVICE PLATFORMS.
 6. LOWER THE 4 ELEVATOR HOIST HOOKS TO THEIR FULLY EXTENDED POSITION.
 7. CONNECT ADDITION LENGTHS OF SLING(S) TO ALLOW SLING(S) TO REACH THE PLATFORM LIFTING ASSEMBLY PINS.
 8. CONNECT THE SLINGS TO THE ELEVATOR PLATFORM LIFTING ASSEMBLY PINS BY EXTENDING THE LIFTING PIN THROUGH THE SLING.
- CAUTION: AS PLATFORM CORBELS ENGAGE INTO VERTICAL T-RAILS USE CAUTION TO PREVENT DAMAGE TO NYLON CORBEL INSERTS. IF CORBEL INSERTS ARE DAMAGED, CONTRACTOR SHALL REPLACE AT NO COST TO THE GOVERNMENT.
- NOTE: VERTICAL T-RAILS ARE MARKED AT 5' INTERVALS, HOLES ARE SPACED AT 1' INTERVALS. ZERO ELEVATION IS THE VAB FLOOR.
9. RAISE PLATFORM UNTIL CORBELS ARE FULLY ENGAGED WITH THE VERTICAL T-RAIL.
 10. INSERT CORBEL PINS (8 PINS) THRU CORBEL PLATES, ROTATE TO LOCK.
- NOTE: E-STOP AND POWER INTERFACE CORD PLUGS HAVE 30' CABLES AND MUST BE DIS-CONNECTED AND RECONNECT AT INTERVALS LESS THAN 30' FROM THE INTERFACE POINT. ACCESS TO FACILITY CONNECTIONS IS DONE USING EGRESS LADDERS.
11. CONNECT THE E-STOP AND ELEVATOR LANDING POWER CONNECTIONS.
- NOTE: DUE TO THE SLING LENGTHS AND SLING STRETCH AFTER THE INITIAL LIFT AND THE FIRST SET OF SLINGS ARE REMOVED IT MIGHT BE NECESSARY TO INSTALL THE 5' SLINGS TO ALLOW LIFTING PIN CONNECTION.
12. LOWER THE HOISTS TO REMOVE THE APPROPRIATE LENGTH OF SLING(S) TO PERFORM THE NEXT HEIGHT ADJUSTMENT.
 13. CONNECT SLINGS TO THE PLATFORM LIFTING ASSEMBLY PINS.
 14. LIFT PLATFORM SLIGHTLY TO TAKE THE LOAD OFF THE PLATFORM AND REMOVE THE 8 CORBEL PINS.
- NOTE: INSTALL GUARDRAILS ON ALL PLATFORMS THAT HAVE LIFTING PIN COVERS REMOVED.
15. REPEAT STEPS 9.0 THRU 14.0 UNTIL ELEVATOR PLATFORM IS INSTALLED IN ITS DESIRED ELEVATION/LOCATION.
- NOTE: FAILURE TO RETRACT PLATFORM LIFTING LUGS WILL CAUSE INTERFERENCE WITH INSTALLATION OF OTHER PLATFORMS.
16. REMOVE THE SLINGS AND RETRACT THE PLATFORM LIFTING ASSEMBLY PINS.
 17. PLATFORM INSTALLATION COMPLETE.
 18. REPEAT STEPS 1.0 THRU STEPS 16.0 FOR EACH ELEVATOR PLATFORM THAT WILL BE INSTALLED.
 19. RE-INSTALL THE PLATFORM LIFTING ASSEMBLY PIN COVERS.
 20. REMOVE THE FALL ARREST POSTS AND RE-INSTALL COVERS.
 21. CONNECT PLATFORM ELEVATOR INTERFACE CABLING AND RUN ELEVATOR CAR TEST TO VERIFY PROPER CAR TRAVEL AND CLEARANCE.
 22. REMOVE THE FALL ARREST POLE AND REPLACE COVER.
 23. REMOVE ANY REMAINING SLINGS AND RETURN HOISTS TO THEIR STOWED POSITION.
 24. OPERATION COMPLETE.



VAB KEY PLAN
SCALE: NTS

20 10 0 20 40
1 IN = 20 FT
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| DRAWN: | JOSEPH HAUER | 08-20-2013 | | |
| CHECKED: | JOE DAMICO | 08-20-2013 | | |
| SUBMITTED ARCHIVING OF RECORD | ROBERT PRUSS | | | |
| ST OF LICENSURE: | FL | | | |
| LICENSE NO: | | | | |
| APPROVED: | JOHN KERESMAR | | FILE NO. 302-6058-043 | SIZE E |
| MIKE HARTNETT | | | TOWNS NO. 79K39665 | REV |
| PCN | 99000.5 | SHEET | 4 | OF |

A

1

A

3. EXISTING ELEVATOR DOORS ARE ASSUMED TO BE ACM. ALTERATION OF ELEVATOR DOORS SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.

| High Bays 3: Asbestos Bulk Sample Laboratory Analysis Summary | | | | | | | |
|---|--|-----------------------|----------------|-------------------|------------------|------|-------------------|
| Elevator Landing Platform | | | | | | | |
| HMID | Homogeneous Material Description | Sample Locations | Sample Numbers | Asbestos (Yes/No) | Friable (Yes/No) | Type | % & Type Asbestos |
| MO56 | Miscellaneous Material (Elevator Door) Mudded Insulation inside door | A Tower Elevator Door | J2839 | Yes | Yes | Misc | 60% Chrysotile |
| Note: Analysis results based on historical data from the AMIS database system and site walk down of anticipated work areas. | | | | | | | |

HMP-13 ROOF DRAIN PIPE COATINGS

MO56 MISCELLANEOUS MATERIAL
(FIRE RATED ELEVATOR DOOR)
MUDDIED INSULATION INSIDE DOOR

EN-001

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EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - LEVEL 7 - TOWER E
SCALE: 1/4" = 1'-0"

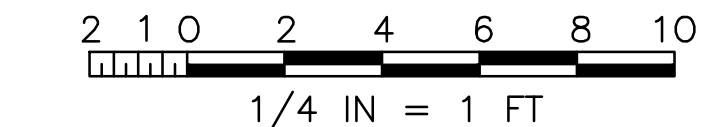
EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - LEVEL 7 - TOWER F
SCALE: 1/4" = 1'-0"

- ### SPECIFIC NOTES:
- | | |
|----------|--|
| A | REMOVE EXISTING GUARDRAIL IN ITS ENTIRETY. |
| B | REMOVE EXISTING STEEL STAIRS, ASSOCIATED HANDRAILS AND SUPPORT STEEL. |
| C | REMOVE PORTION OF EXISTING ELEVATOR LANDING, SEE STRUCTURAL DRAWING S-600. |
| D | EXISTING LIGHTING STANCHIONS TO REMAIN. |
| E | REMOVE EXISTING STEEL CATWALK. |
| F | EXISTING CATWALK TO REMAIN. |

EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - LEVEL 11 - TOWER E
SCALE: 1/4" = 1'-0"

EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - LEVEL 11 - TOWER F
SCALE: 1/4" = 1'-0"

VAB KEY PLAN
SCALE: NTS

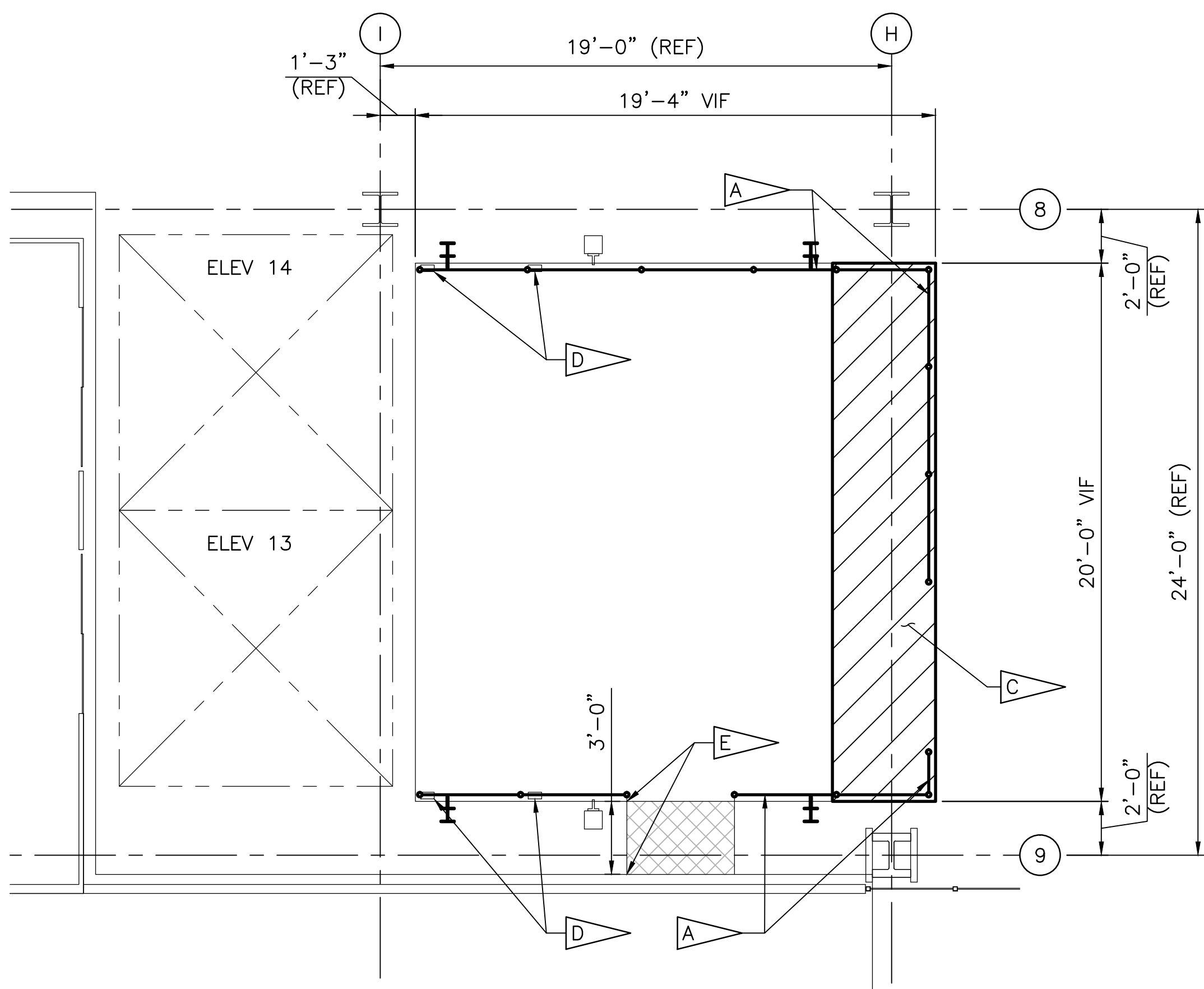


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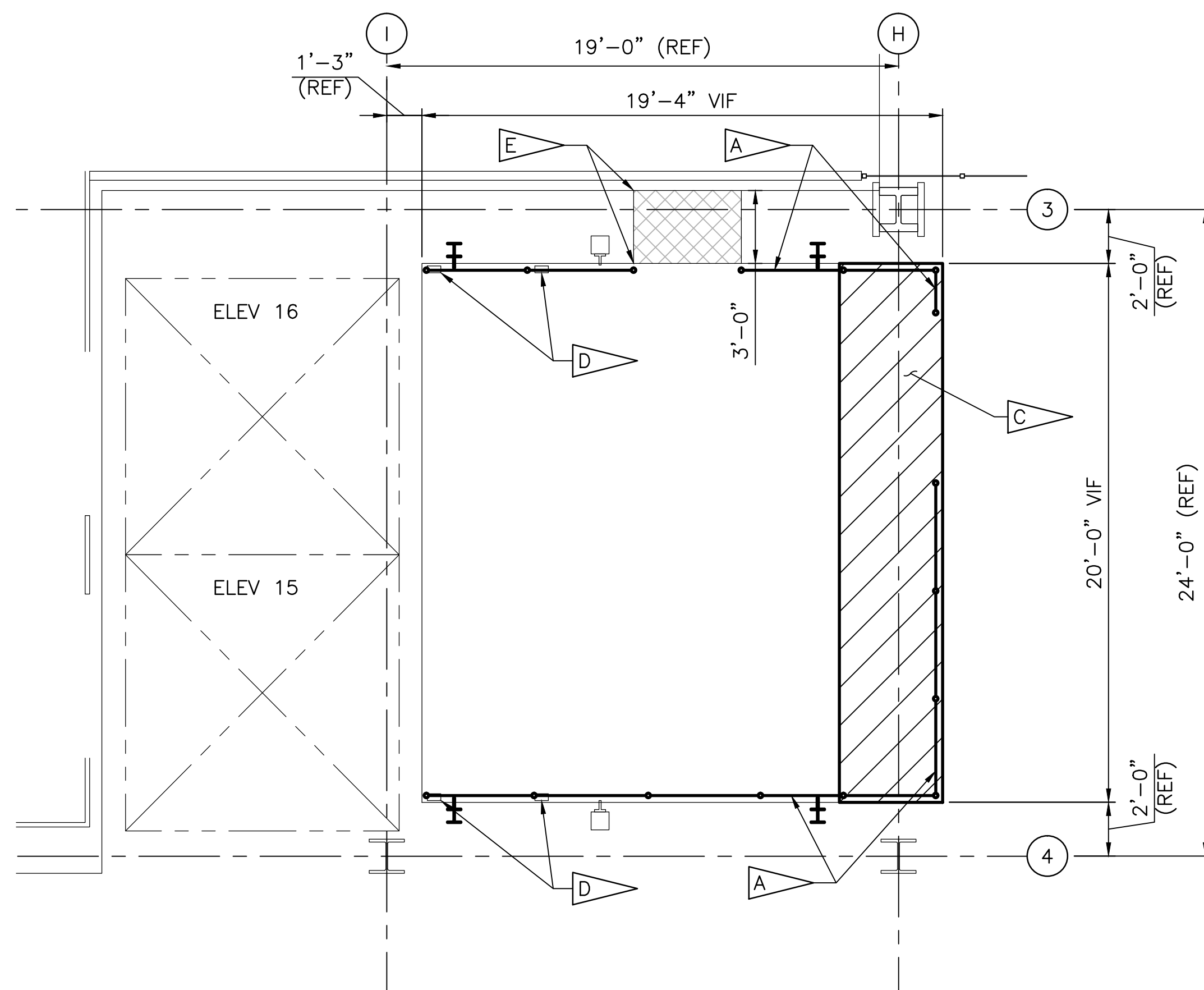
AD-100

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| DRAWN: BRIAN CURTIS | 06-20-2013 | JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER BUILDING | | |
| CHECKED: ALICE SCHULTZ | 06-20-2013 | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING | | |
| SUBMITTED: ARCHIVING OF RECORD | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS – ELEVATOR LANDINGS | | |
| TONY MAZIA | | ELEVATOR LANDING DEMOLITION PLANS -1 | | |
| ST OF LICENSE: FL | | FILE NO. | SIZE | DWG. NO. |
| LICENSE NO: | | 302L-6058-043 | E | 79K39665 |
| APPROVED: | | PROJ. NO. | PCH | 9900.5 |
| JOHN KERSCAR | | SHEET | | 7 OF |
| MIKE HARTNETT | | | | |






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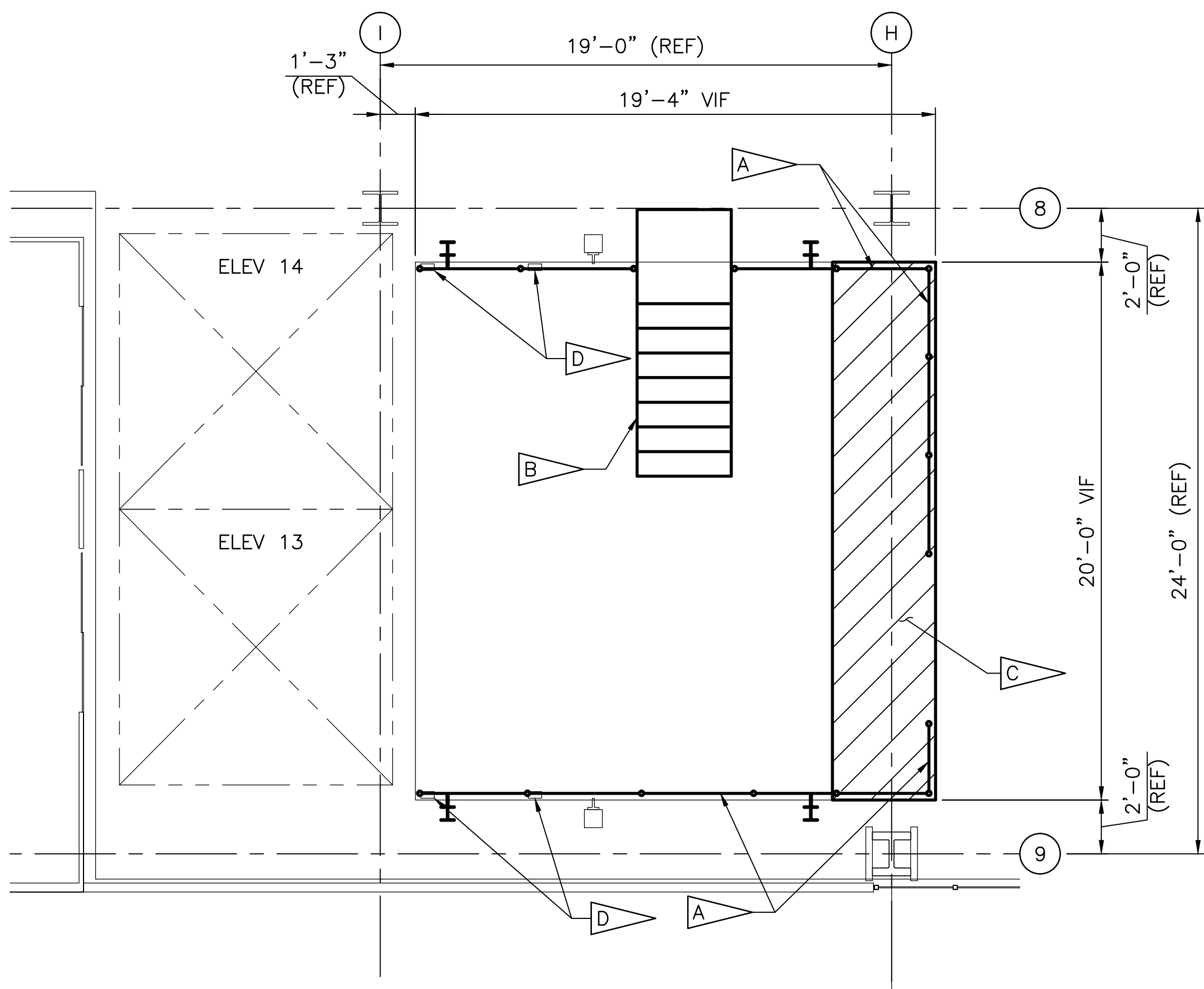


EXISTING ELEVATOR LANDING PLATFORM TO BE MODIFIED - LEVEL 14 - TOWER E
SCALE: 1/4" = 1'-0"

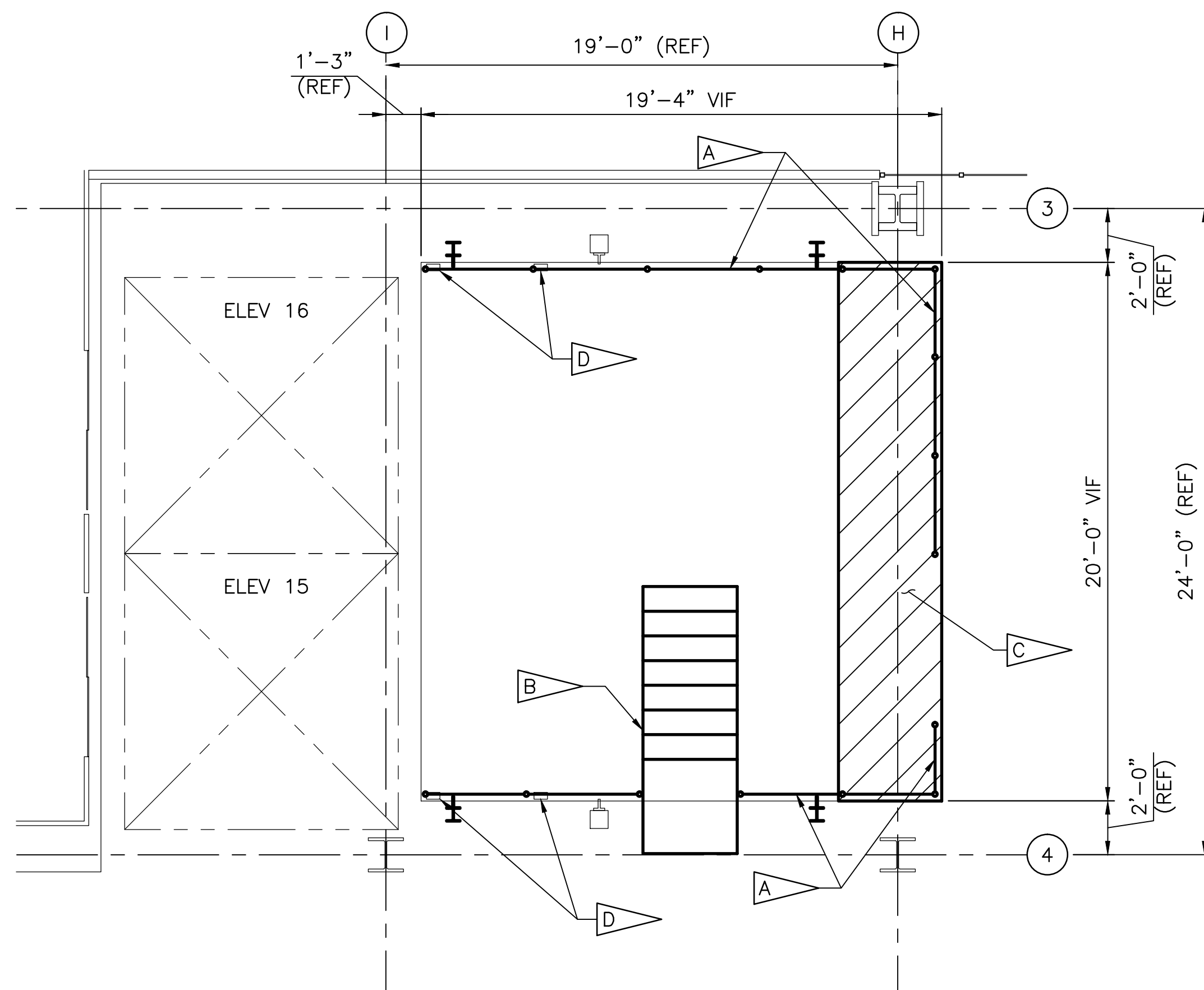


EXISTING ELEVATOR LANDING PLATFORM TO BE MODIFIED - LEVEL 14 - TOWER F
SCALE: 1/4" = 1'-0"

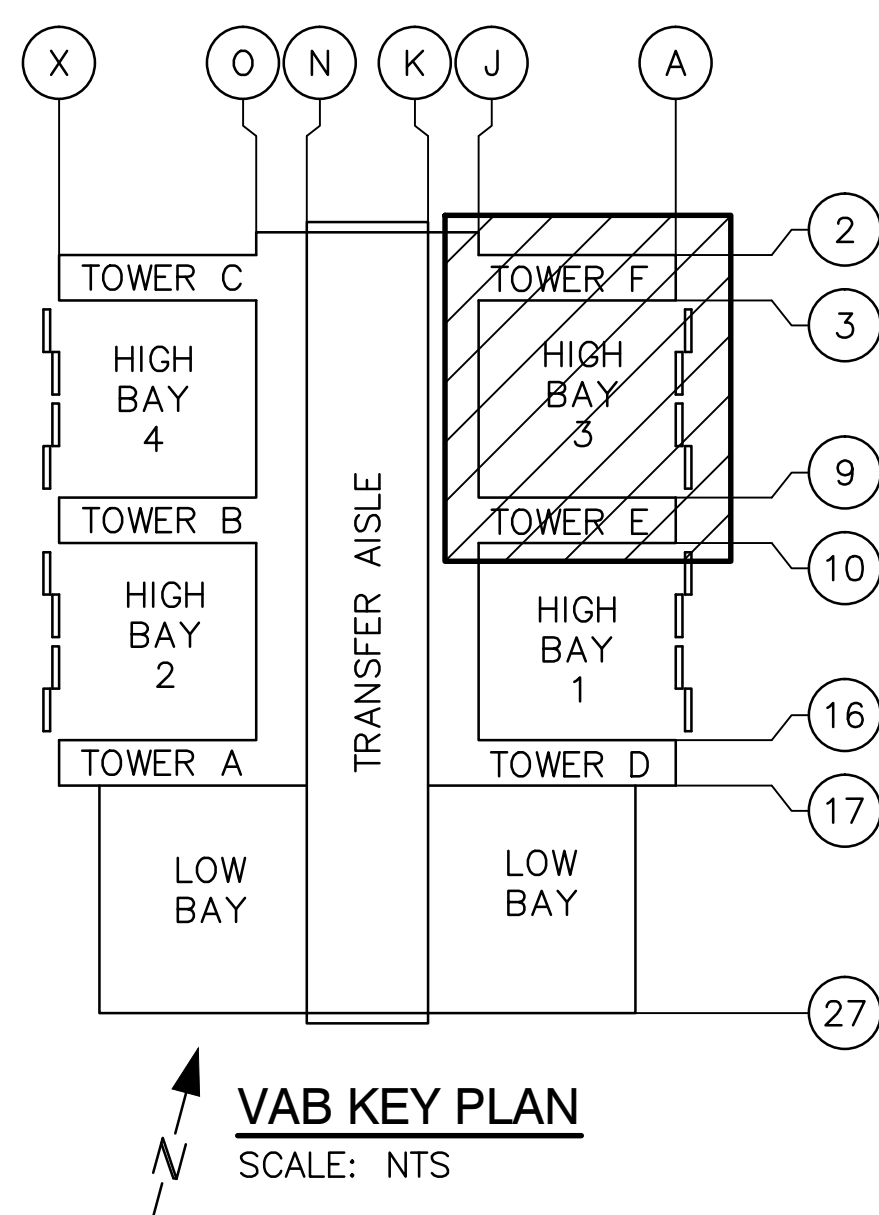
- SPECIFIC NOTES:**
- | | |
|---|--|
|  | REMOVE EXISTING GUARDRAIL IN ITS ENTIRETY. |
|  | REMOVE EXISTING STEEL STAIRS, ASSOCIATED HANDRAILS AND SUPPORT STEEL. |
|  | REMOVE PORTION OF EXISTING ELEVATOR LANDING, SEE STRUCTURAL DRAWING S-600. |
|  | EXISTING LIGHTING STANCHIONS TO REMAIN. |
|  | REMOVE EXISTING STEEL CATWALK. |




EXISTING ELEVATOR LANDING PLATFORM TO BE MODIFIED - LEVEL 19 - TOWER E
SCALE: 1/4" = 1'-0"



EXISTING ELEVATOR LANDING PLATFORM TO BE MODIFIED - LEVEL 19 - TOWER F
SCALE: 1/4" = 1'-0"



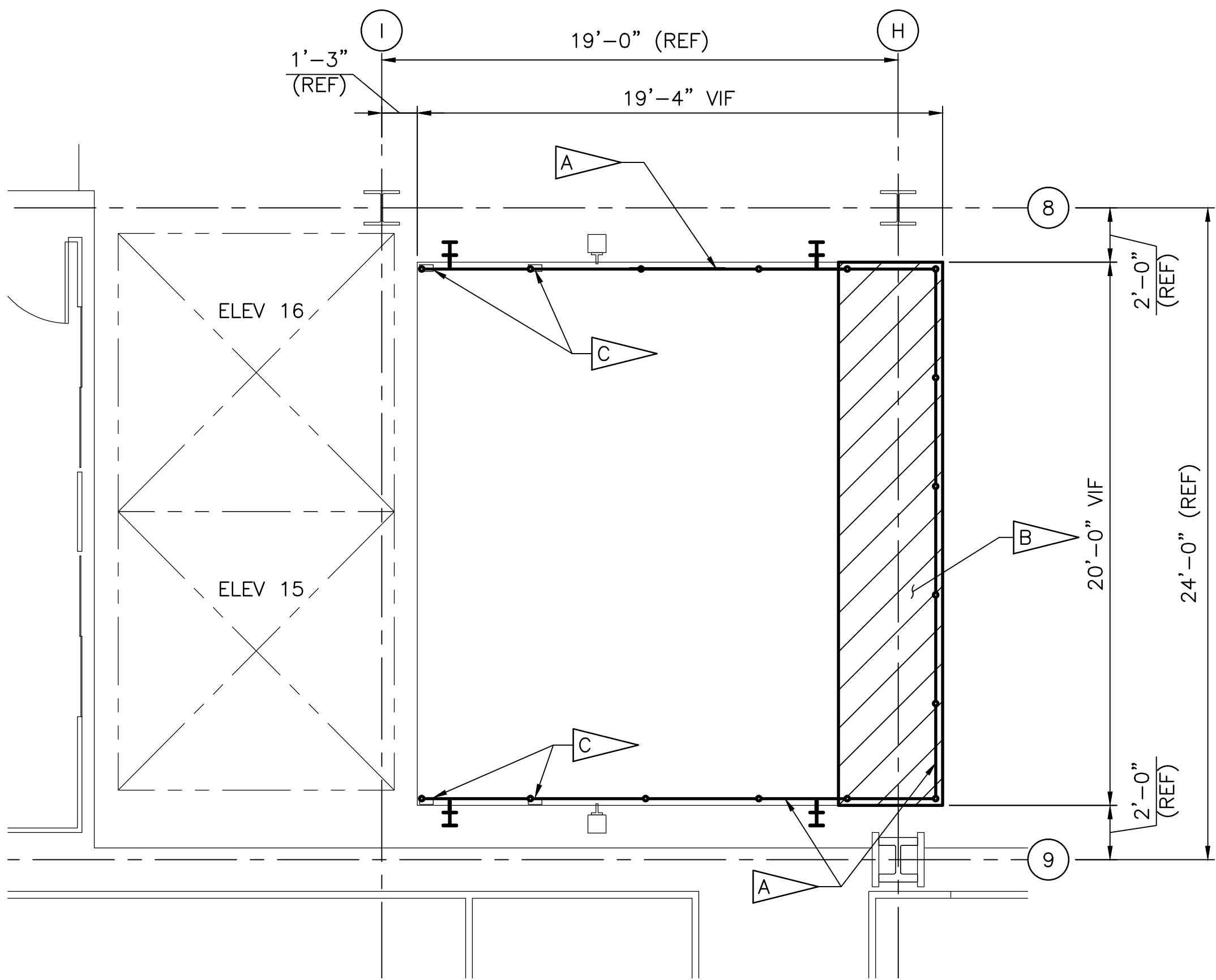
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| DRAWN: BRIAN CURTIS | | 08-20-2013 | LAUNCH COMPLEX 39 | |
| CHECKED: ALICE SHULTZ | | 09-20-2013 | VEHICLE ASSEMBLY BUILDING | |
| SUBMITTED: ARCHIVE OF RECORD | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH | |
| TONY MAZZA | | | BAY 3 FOR SLS – ELEVATOR LANDINGS | |
| ST. OF LICENSING: FL | | | ELEVATOR LANDING | |
| LICENSE NO: ### | | | DEMOLITION PLANS -2 | |
| APPROVED: | | | | |
| JOHN KERCIMAR | | FILE NO. | SIZE | DWG. NO. |
| | | 302-6058-043 | E | 79K39665 |
| MIKE HARTNETT | | PROJ. NO. | PCN | 99000. |
| | | | | SHEET 8 OF |

2 1 0 2 4 6 8 10
1/4 IN = 1 FT

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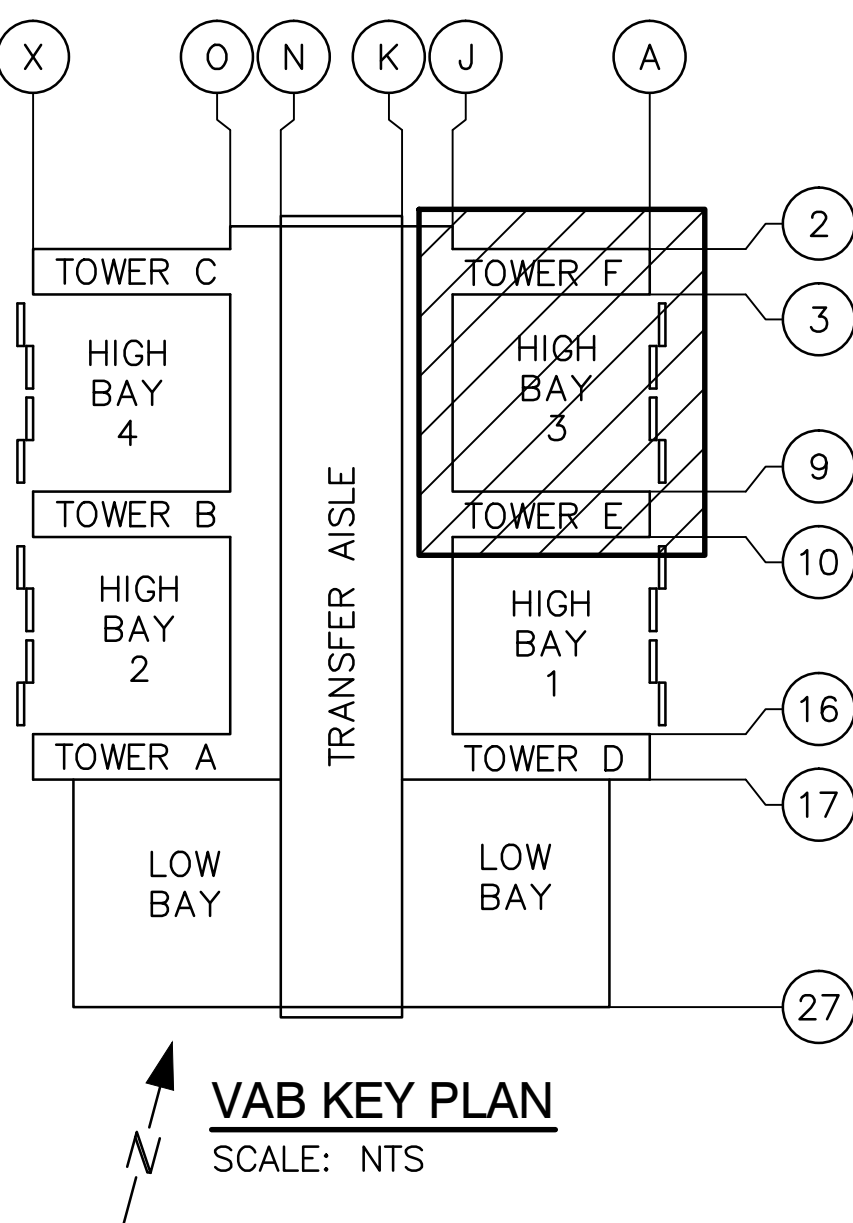
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EXISTING ELEVATOR LANDING PLATFORM TO BE MODIFIED - LEVEL 10 - TOWER E
SCALE: 1/4" = 1'-0"

- SPECIFIC NOTES:**
- A REMOVE EXISTING GUARDRAIL IN ITS ENTIRETY.
 - B REMOVE PORTION OF EXISTING ELEVATOR LANDING, SEE STRUCTURAL DRAWING S-600.
 - C EXISTING LIGHTING STANCHIONS TO REMAIN.

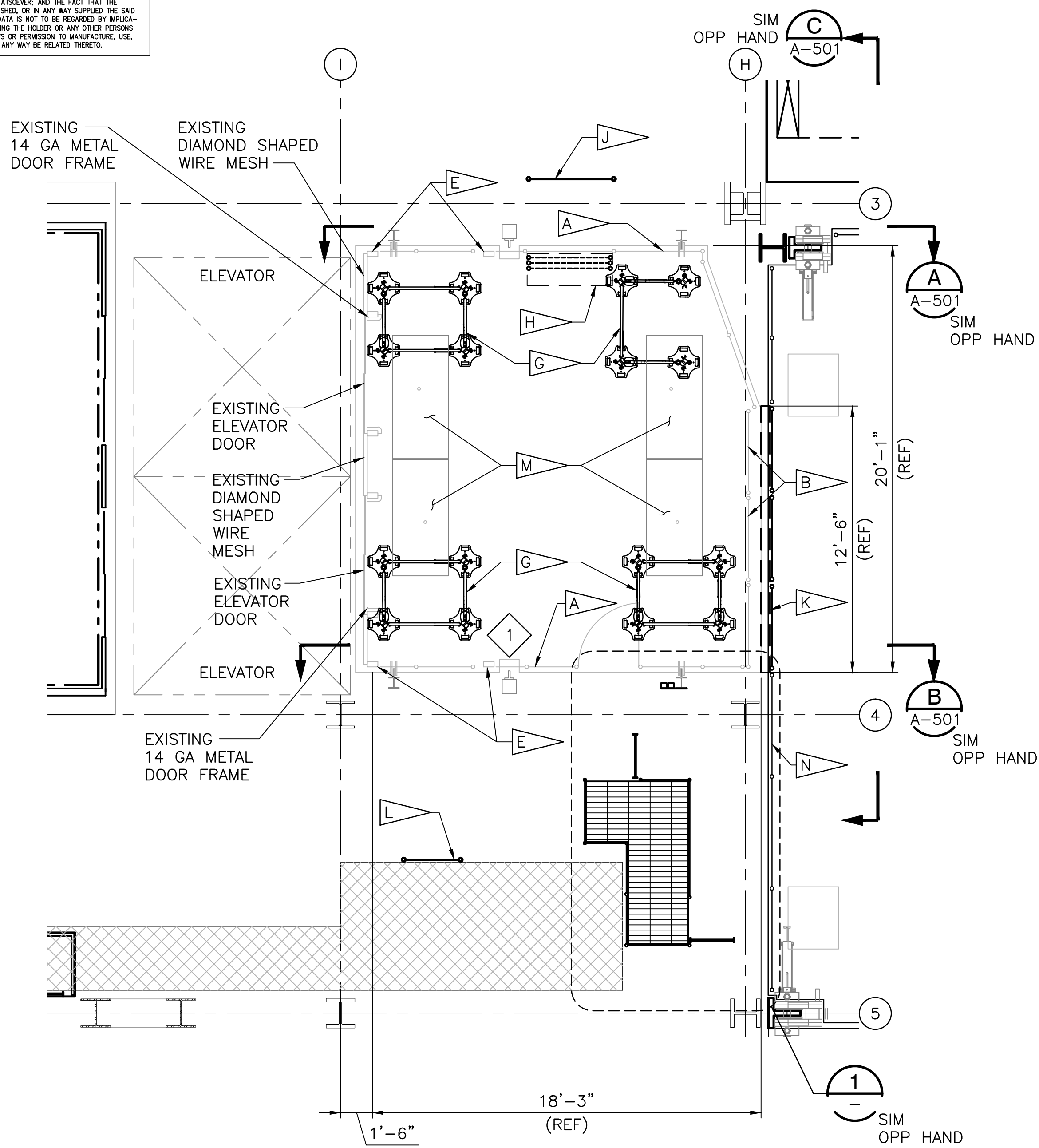


2 1 0 2 4 6 8 10
1/4 IN = 1 FT
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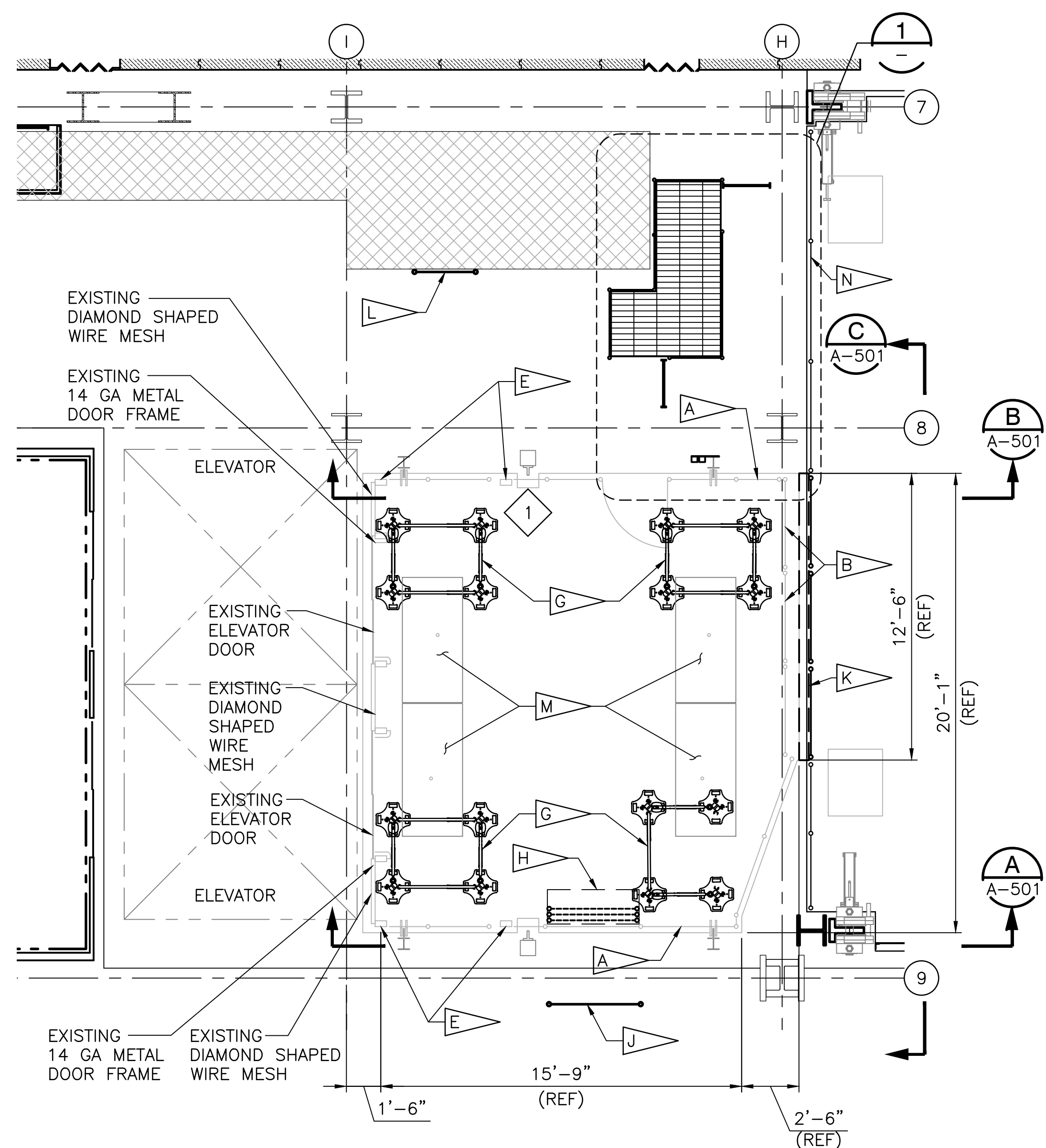
AD-102

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| CHECKED: ALICE SCHULTZ | 08-20-2013 | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS ELEVATOR LANDING DEMOLITION PLANS -3 | | | |
| ST OF LICENSURE: FL | | TONY MAZZA | | | |
| LICENSE NO. | | JOHN KERESMAR | | | |
| APPROVED: | | FILE NO. | SIZE | DWG. NO. | REV |
| | | 302-6058-043 | E | 79K39665 | |
| MIKE HARTNETT | | PROJ. NO. | PCN | 99000.5 | SHEET 9 OF |

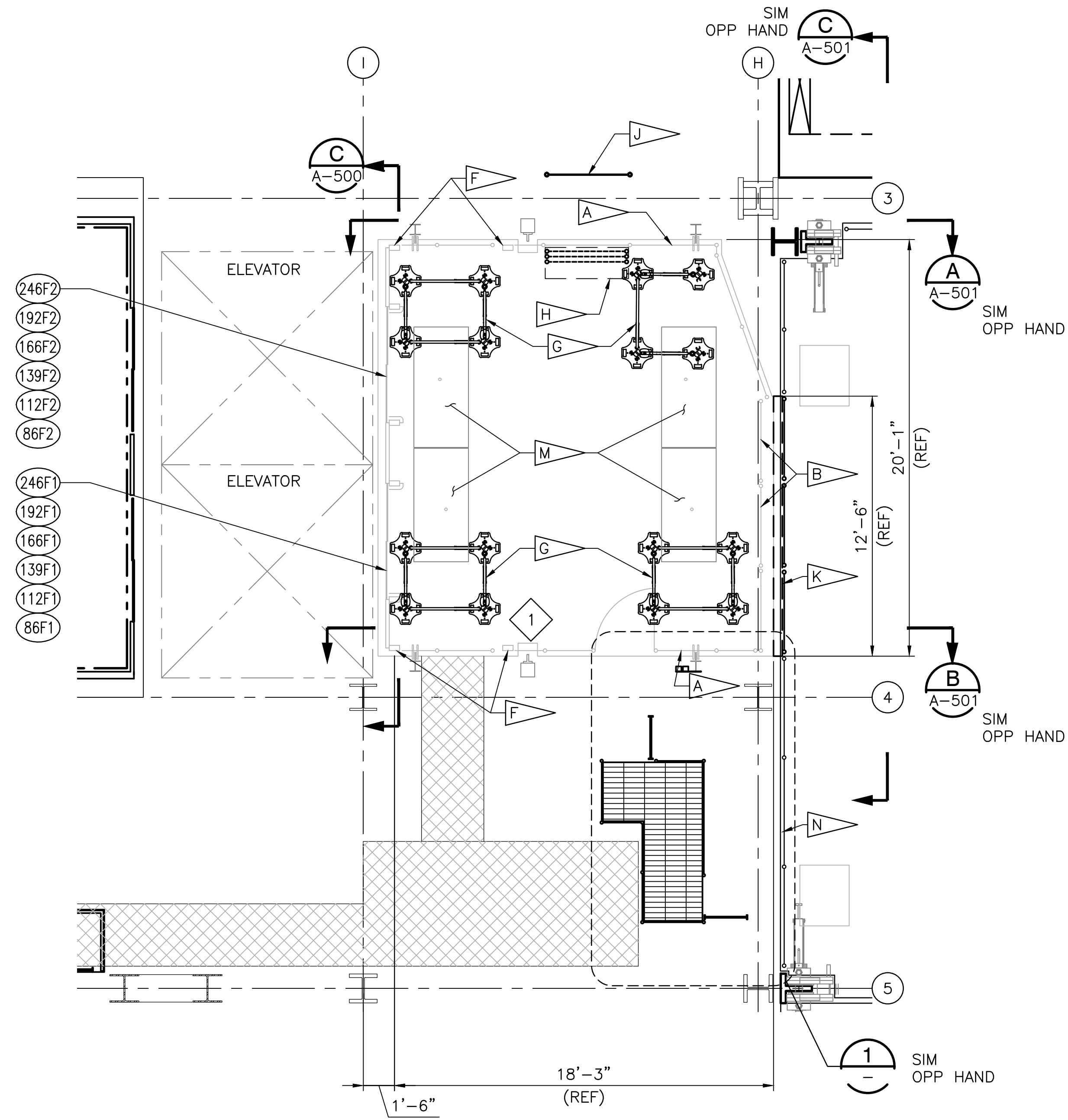
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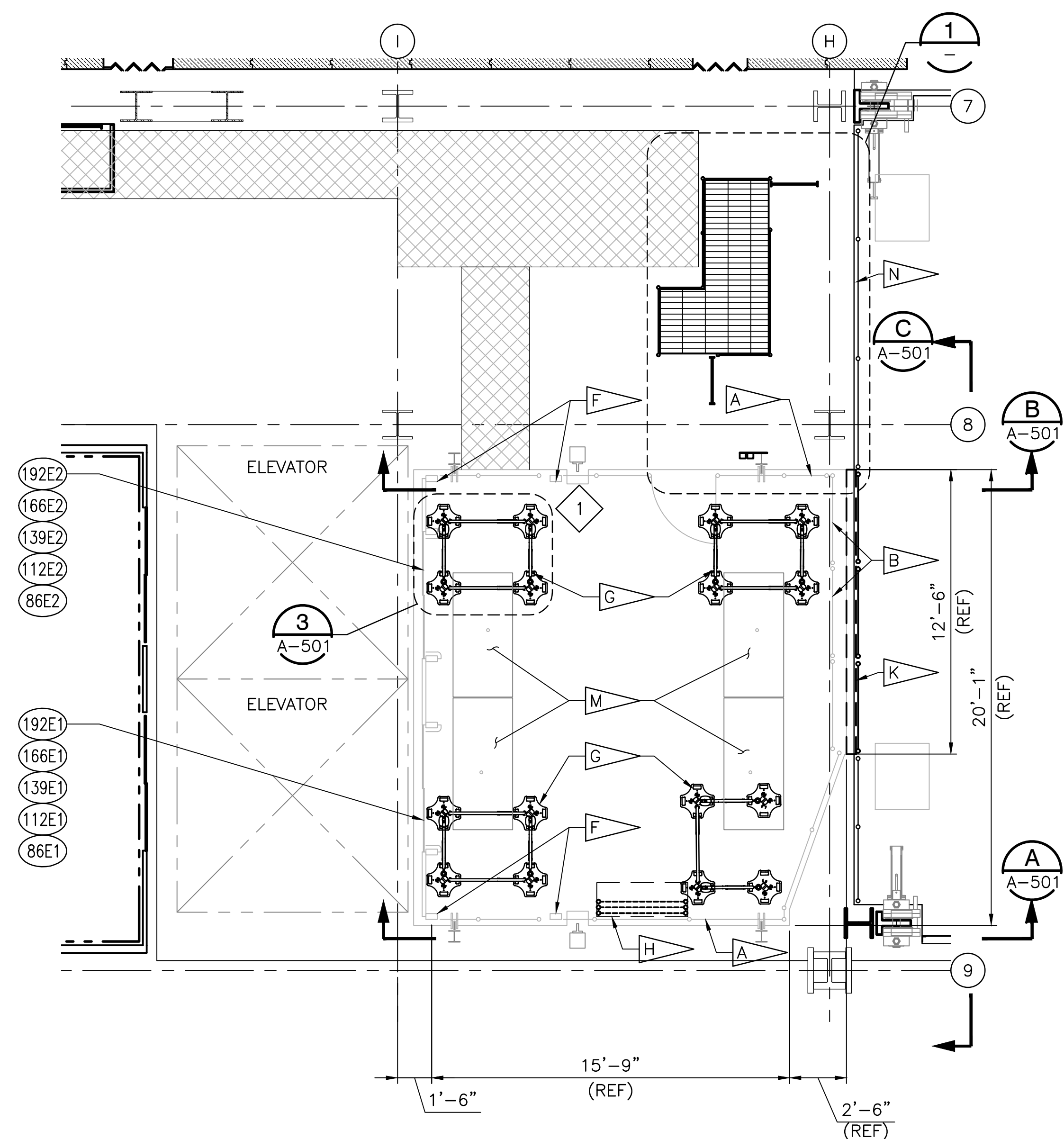
EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - TOWER F
SCALE: 1/4" = 1'-0"



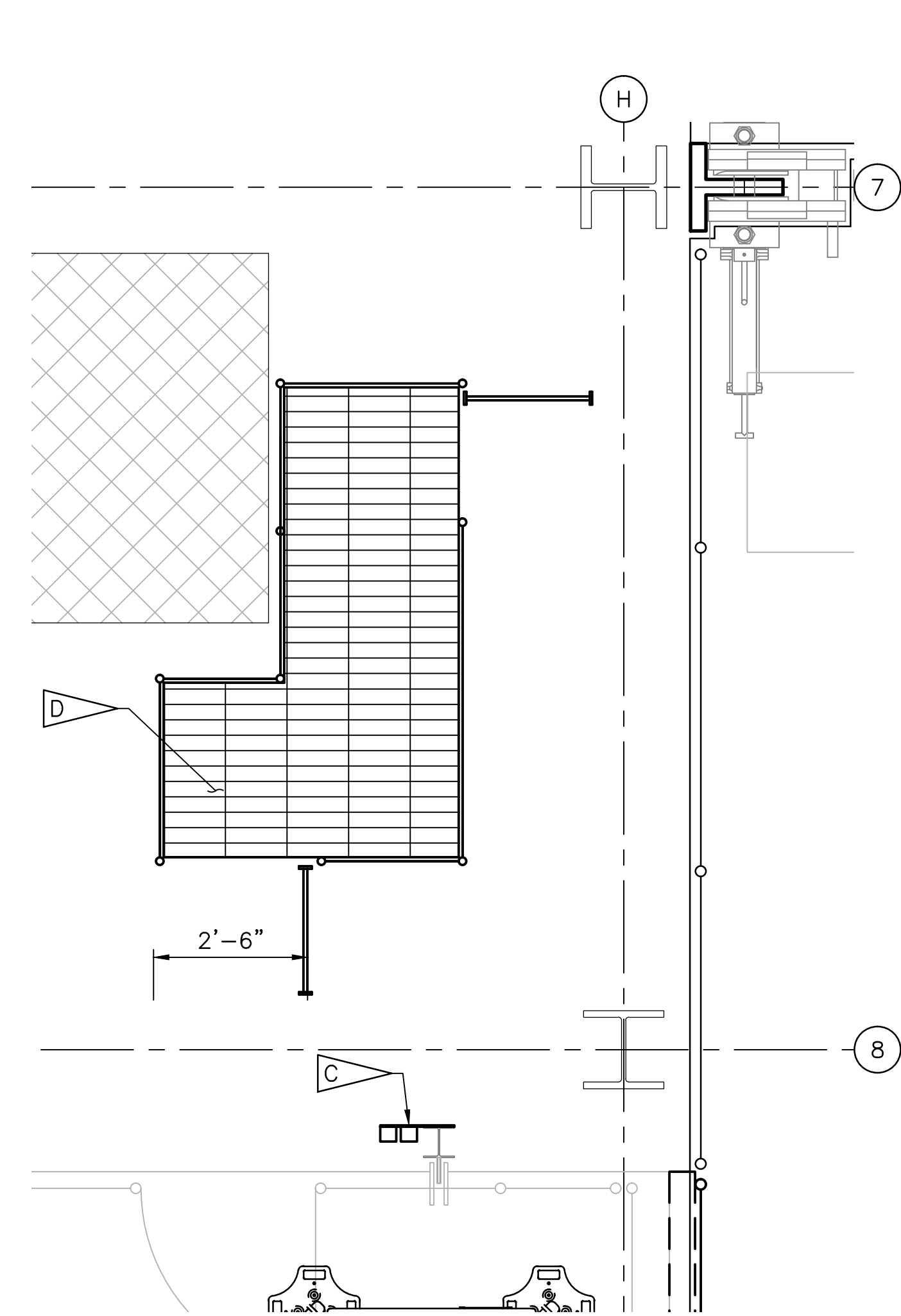
EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - TOWER E



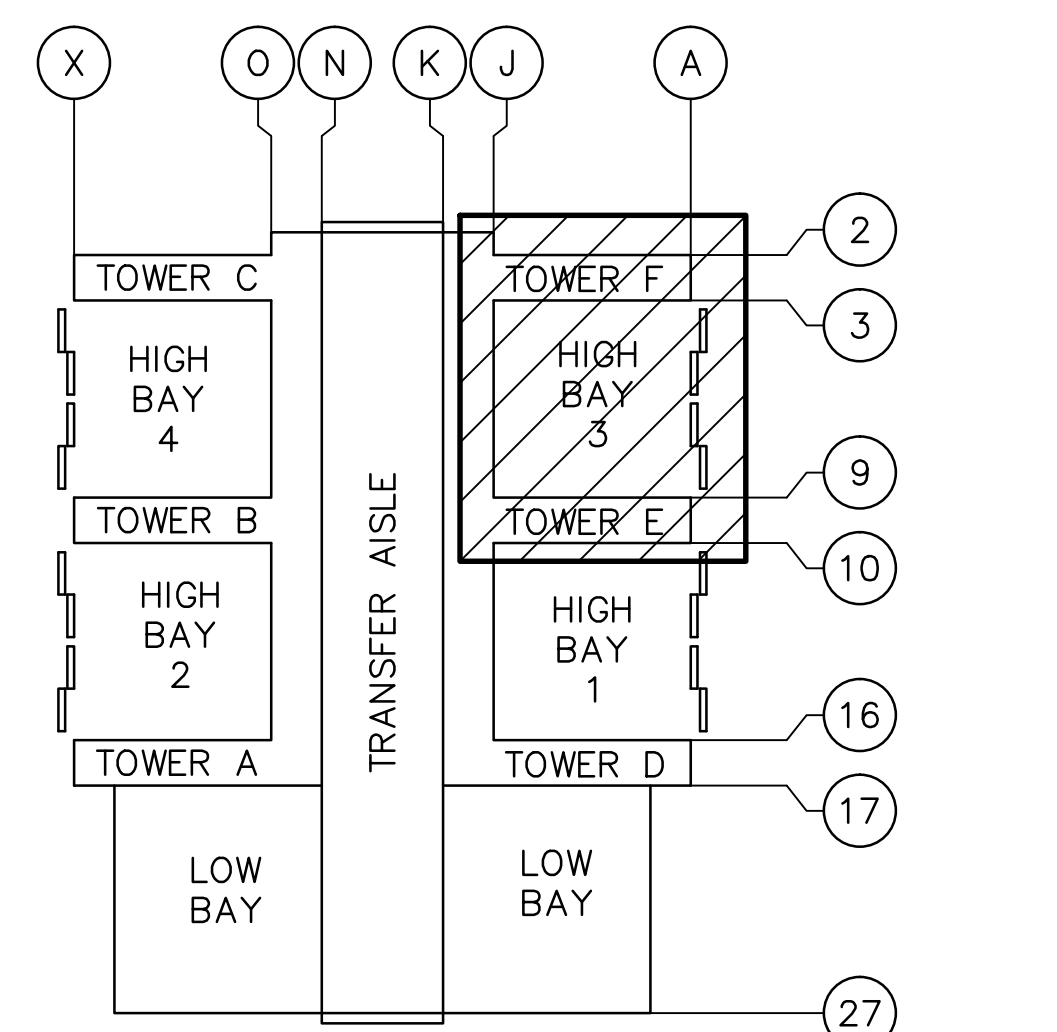
NEW ELEVATOR LANDING PLATFORMS - TOWER F
SCALE: 1/4" = 1'-0"



NEW ELEVATOR LANDING PLATFORMS - TOWER E
SCALE: 1/4" = 1'-0"



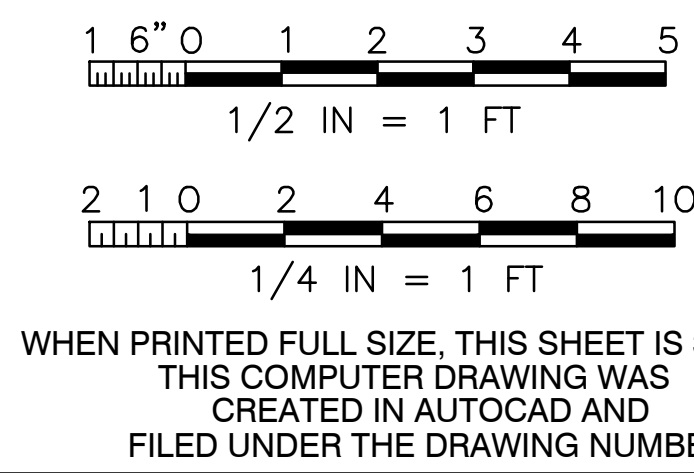
ELEVATOR LANDING PLATFORM ACCESS FLIP PLATFORM (NIC) (1)
SCALE: 1/2" = 1'-0"



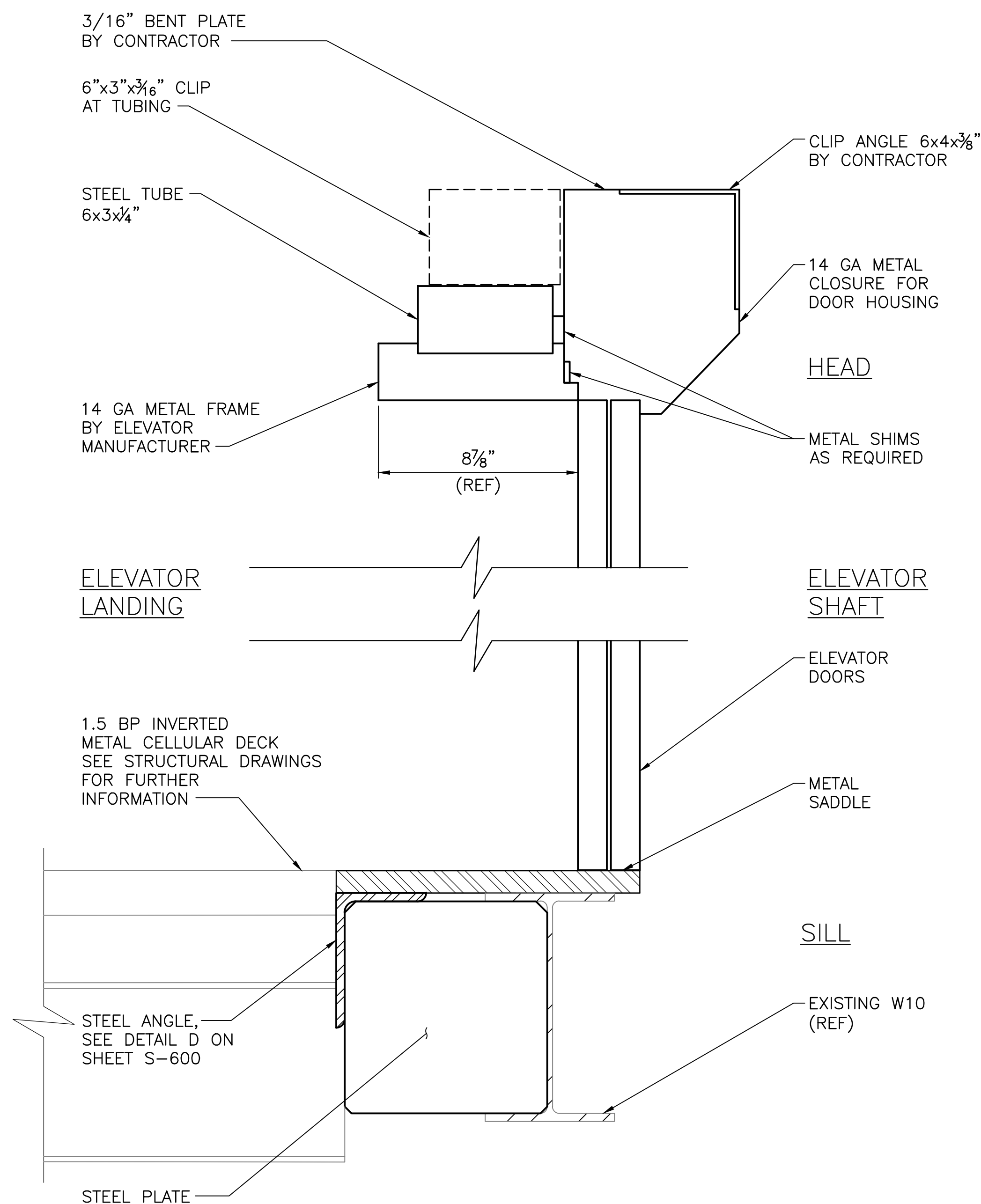
VAB KEY PLAN
SCALE: NTS

| ELEVATOR LANDING PLATFORMS | | |
|--|-----------------|---------|
| TABLE | | |
| EXISTING ELEVATOR PLATFORM LANDINGS | NEW LOCATION | |
| 7E | ELEVATION 346' | E TOWER |
| 10E | ELEVATION 311' | E TOWER |
| 11E | ELEVATION 280' | E TOWER |
| 14E | ELEVATION 264' | E TOWER |
| 19E | ELEVATION 246' | E TOWER |
| 7F | ELEVATION 346' | F TOWER |
| 11F | ELEVATION 311' | F TOWER |
| 14F | ELEVATION 280' | F TOWER |
| 19F | ELEVATION 264' | F TOWER |
| NEW ELEVATOR PLATFORM LANDINGS | NEW LOCATION | |
| | ELEVATION 192' | E TOWER |
| | ELEVATION 166' | E TOWER |
| | ELEVATION 139' | E TOWER |
| | ELEVATION 112' | E TOWER |
| | ELEVATION 86' | E TOWER |
| | ELEVATION 246' | F TOWER |
| | ELEVATION 192' | F TOWER |
| | ELEVATION 166' | F TOWER |
| | ELEVATION 139' | F TOWER |
| | ELEVATION 112' | F TOWER |
| | ELEVATION 86' | F TOWER |

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL | |
|---|------|--------------|---|----------|-------------|
| REVISIONS | | | | | |
| <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>RS&H[®]</div><div>IMPROVING YOUR WORLD</div></div> | | | Reynolds, Smith and Hills, Inc. 115 Alma Blvd., Suite 101 Merritt Island, Florida 32953-4101 (321) 455-0212 (321) 455-0223 FAX www.rsandh.com | | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | | |
| DRAWN: BRIAN CURTIS | | 08-20-2013 | JOHN F. KENNEDY SPACE CENTER, NASA | | |
| CHECKED: ALICE SCHULTZ | | 09-20-2013 | KENNEDY SPACE CENTER, FLORIDA | | |
| SUBMITTED: ARCHIVE OF RECORD | | | LAUNCH COMPLEX 39 | | |
| TONY MAZZA | | | VEHICLE ASSEMBLY BUILDING | | |
| ST. OF LICENSURE: FL | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH | | |
| LICENSE NO: | | | BAY 3 FOR SLS – ELEVATOR LANDINGS | | |
| APPROVED: | | | ELEVATOR LANDING PLATFORMS | | |
| JOHN KERSMAR | | | TYPICAL PLANS AND DETAILS | | |
| | | FILE NO. | SIZE | DWG. NO. | REV |
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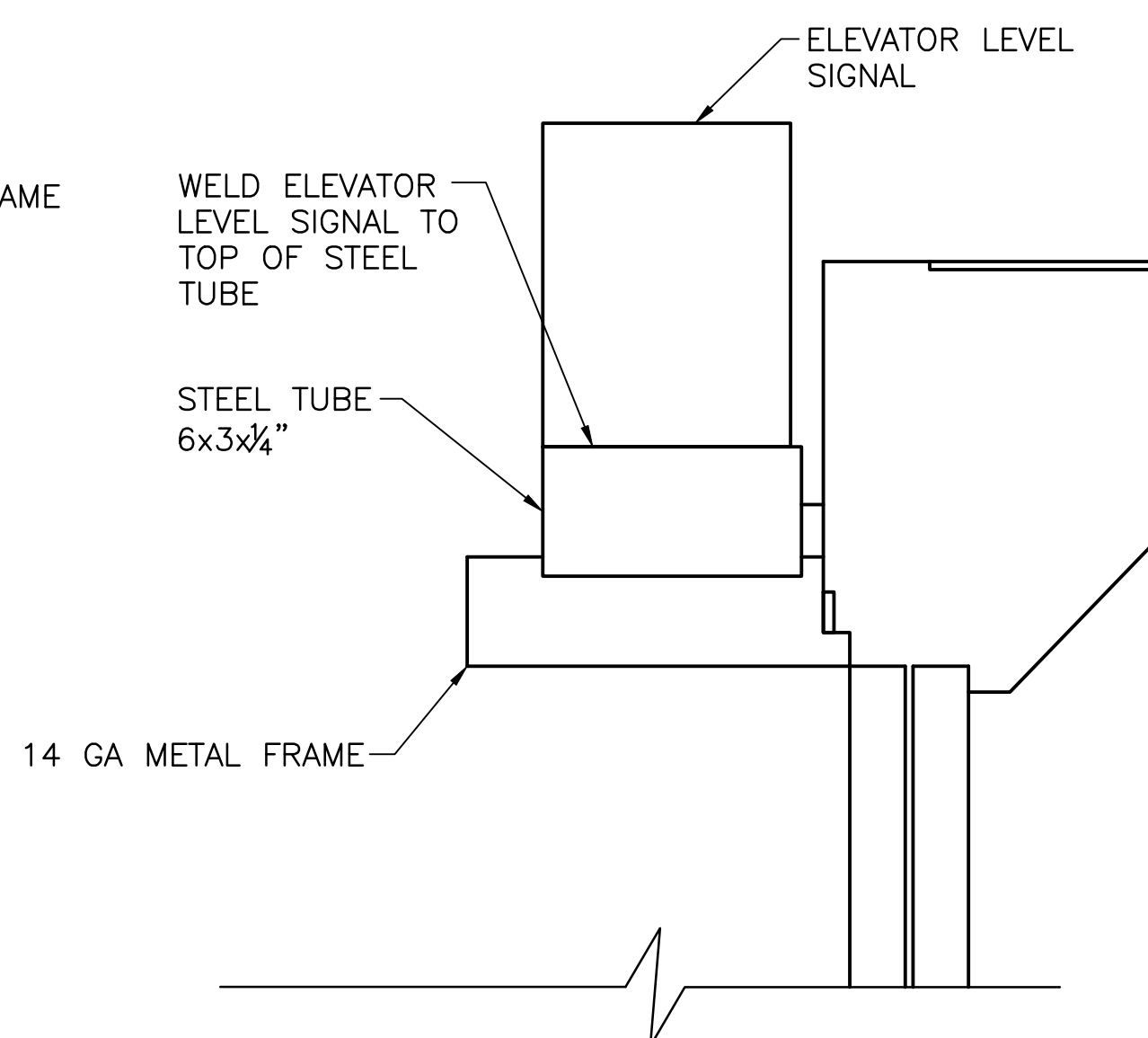
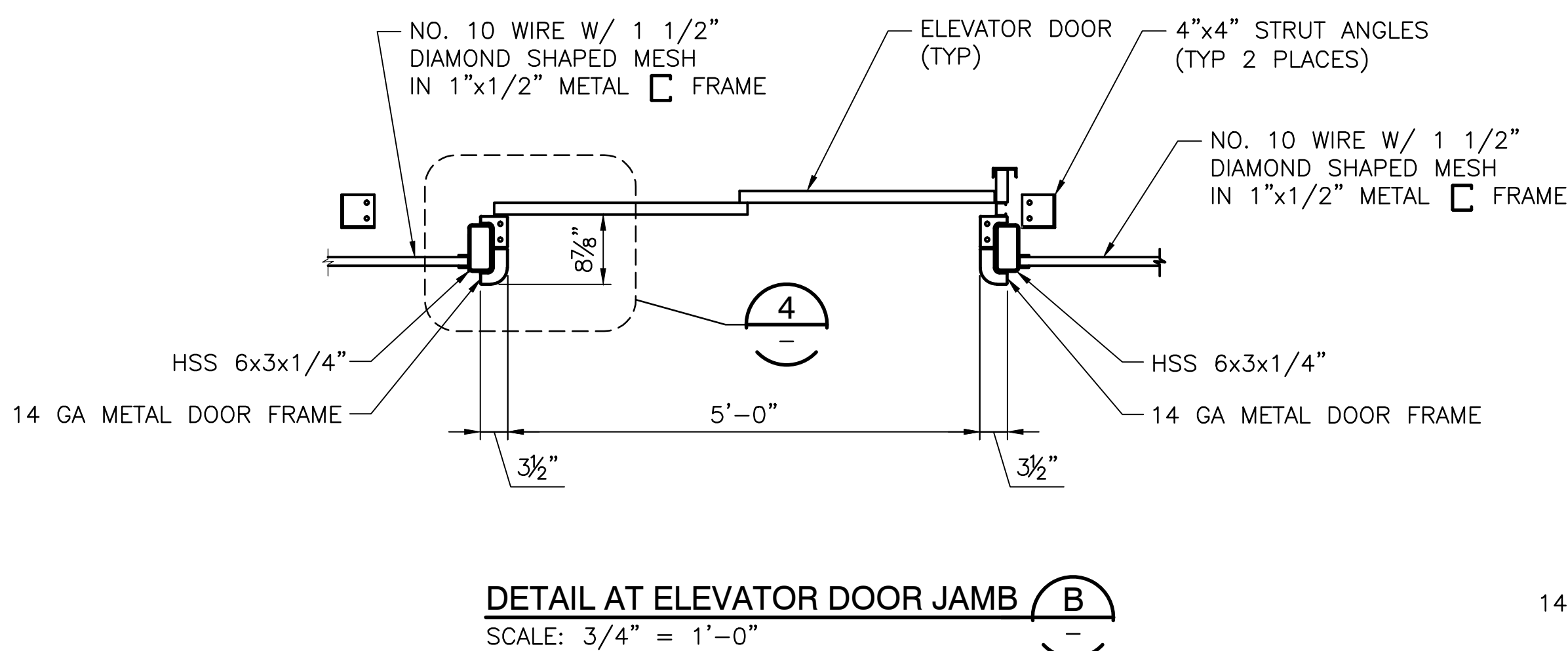
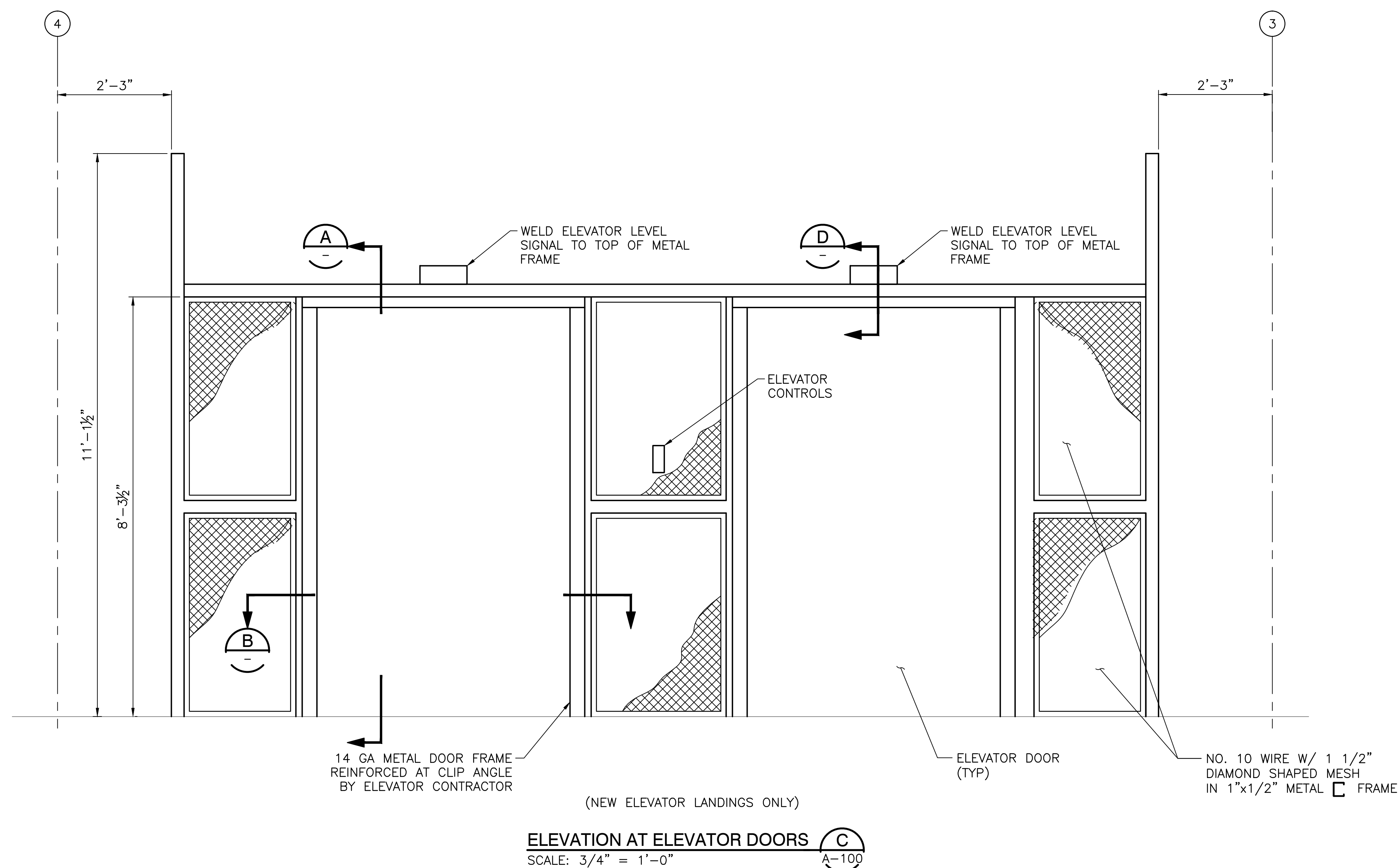
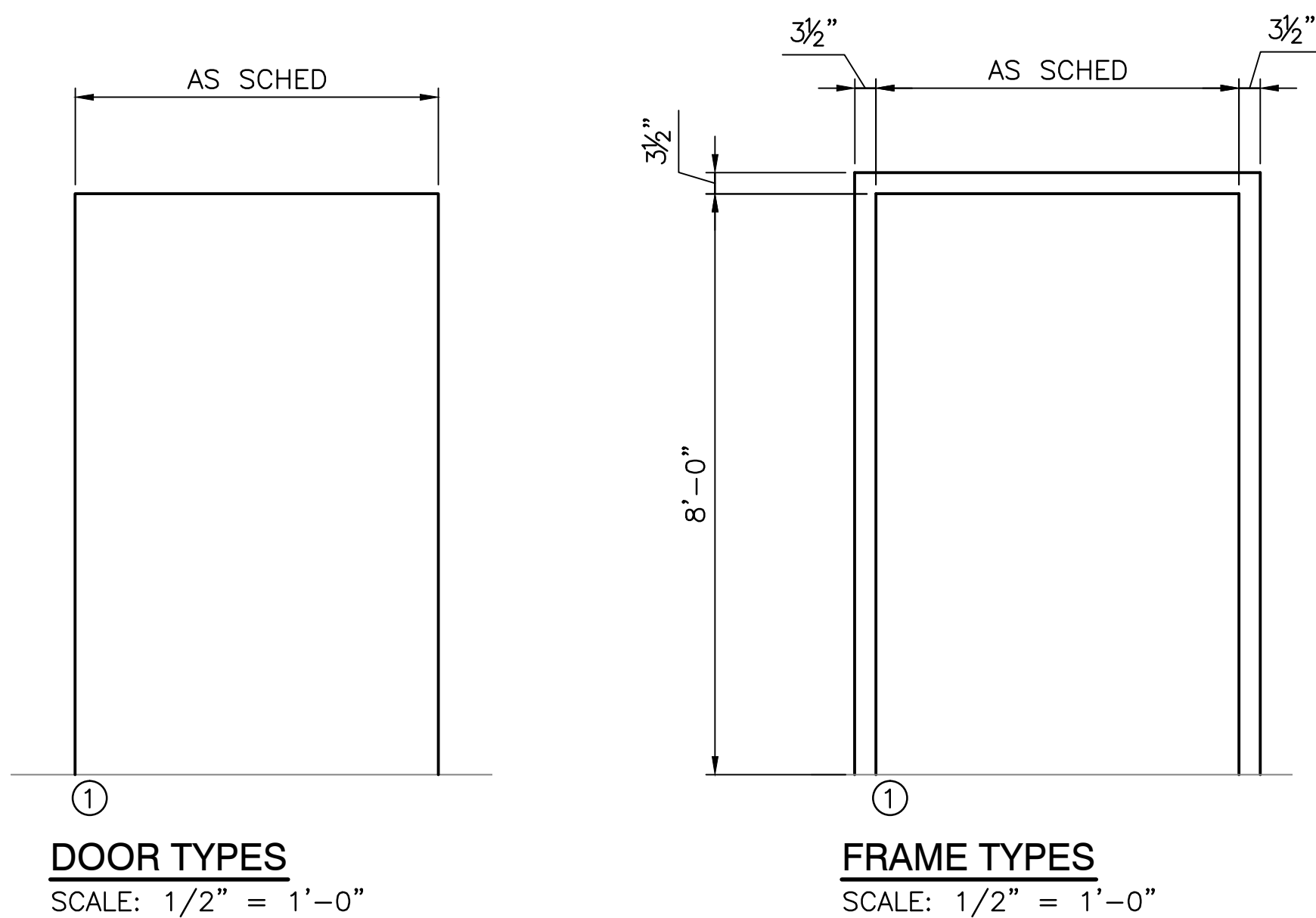


(NEW ELEVATOR LANDINGS ONLY)

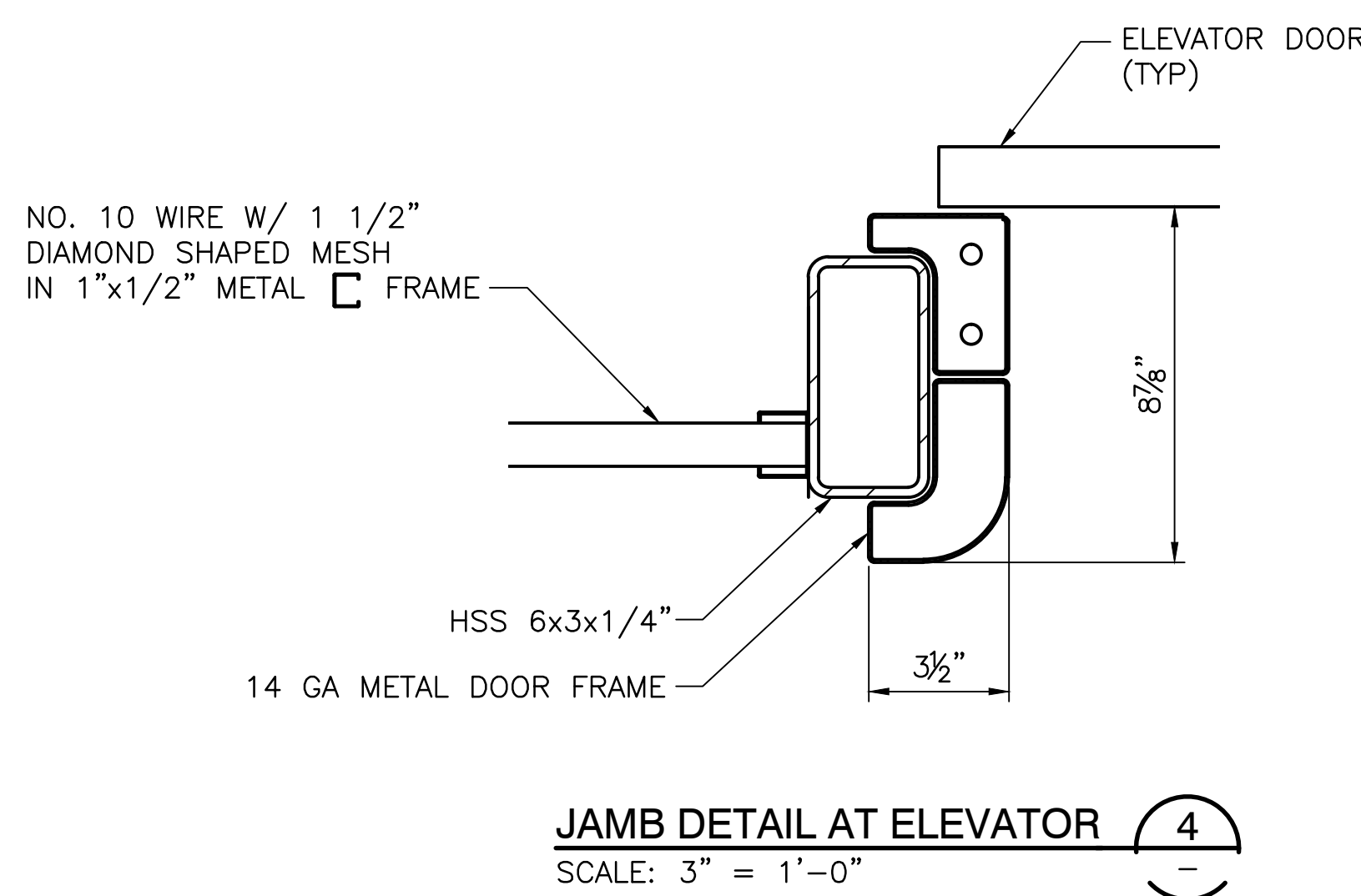
HEAD & SILL DETAIL AT ELEVATOR

| DOOR SCHEDULE | | | | | | | | | | | | | | | | |
|----------------|-------|--------|--------|------|------|------|-------|------|------|-------------|---------|--------|--------|---------------|--------------------------------|--|
| DOOR NUMBER | SIZE | | | DOOR | | | FRAME | | | UL LABEL | DETAILS | | | HDWR GROUP | REMARKS | |
| | WIDTH | HEIGHT | THICK. | TYPE | MAT. | FIN. | TYPE | MAT. | FIN. | | HEAD | JAMB | SILL | | | |
| 246F1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 246F2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 192E1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 192E2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 192F1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 192F2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 166E1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 166E2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 166F1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 166F2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 139E1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 139E2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 139F1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 139F2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 112E1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 112E2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 112F1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 112F2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 86E1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 86E2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 86F1 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |
| 86F2 | 5'-0" | 8'-0" | 1" | 1 | B | FAC | 1 | A | FAC | — | A/A500 | B/A500 | A/A500 | — | SINGLE SIDE PARTING ELEV. DOOR | |

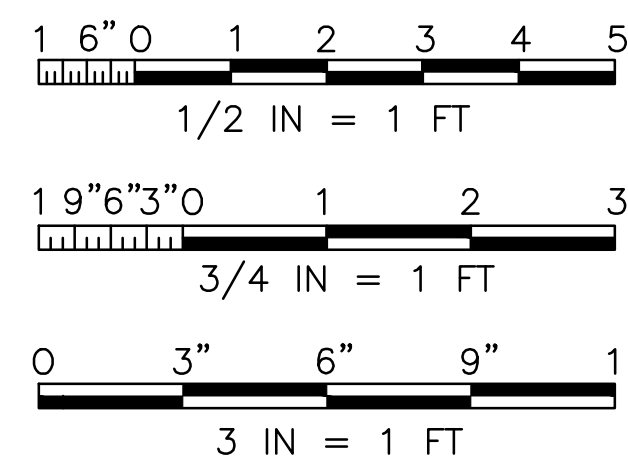
A. 14 GA METAL DOOR FRAME
B. 14 GA ELEVATOR DOOR




DETAIL AT ELEVATOR LEVEL SIGNAL 
SCALE: 3" = 1'-0"



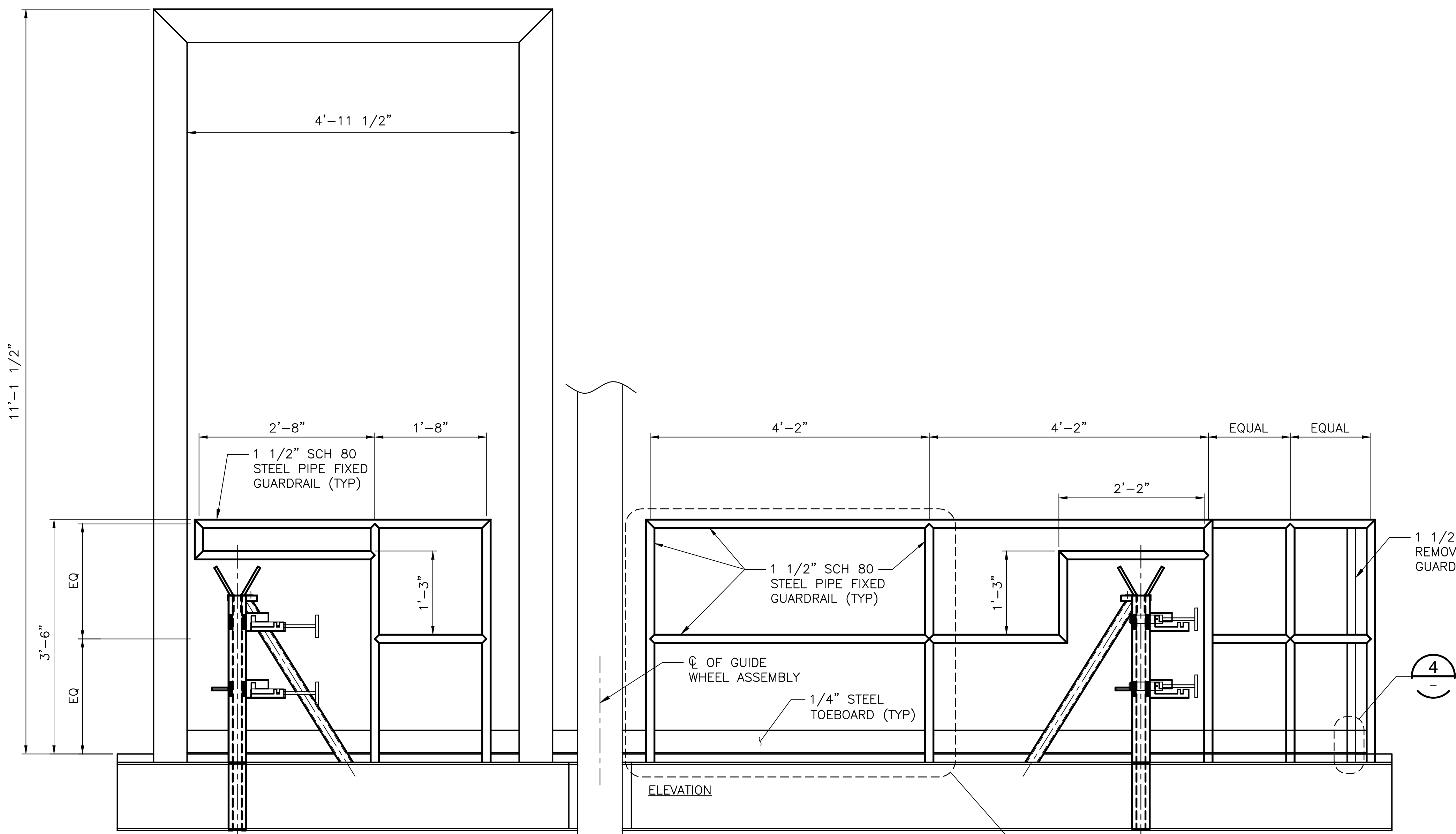
JAMB DETAIL AT ELEVATOR 4
SCALE: 3" = 1'-0"



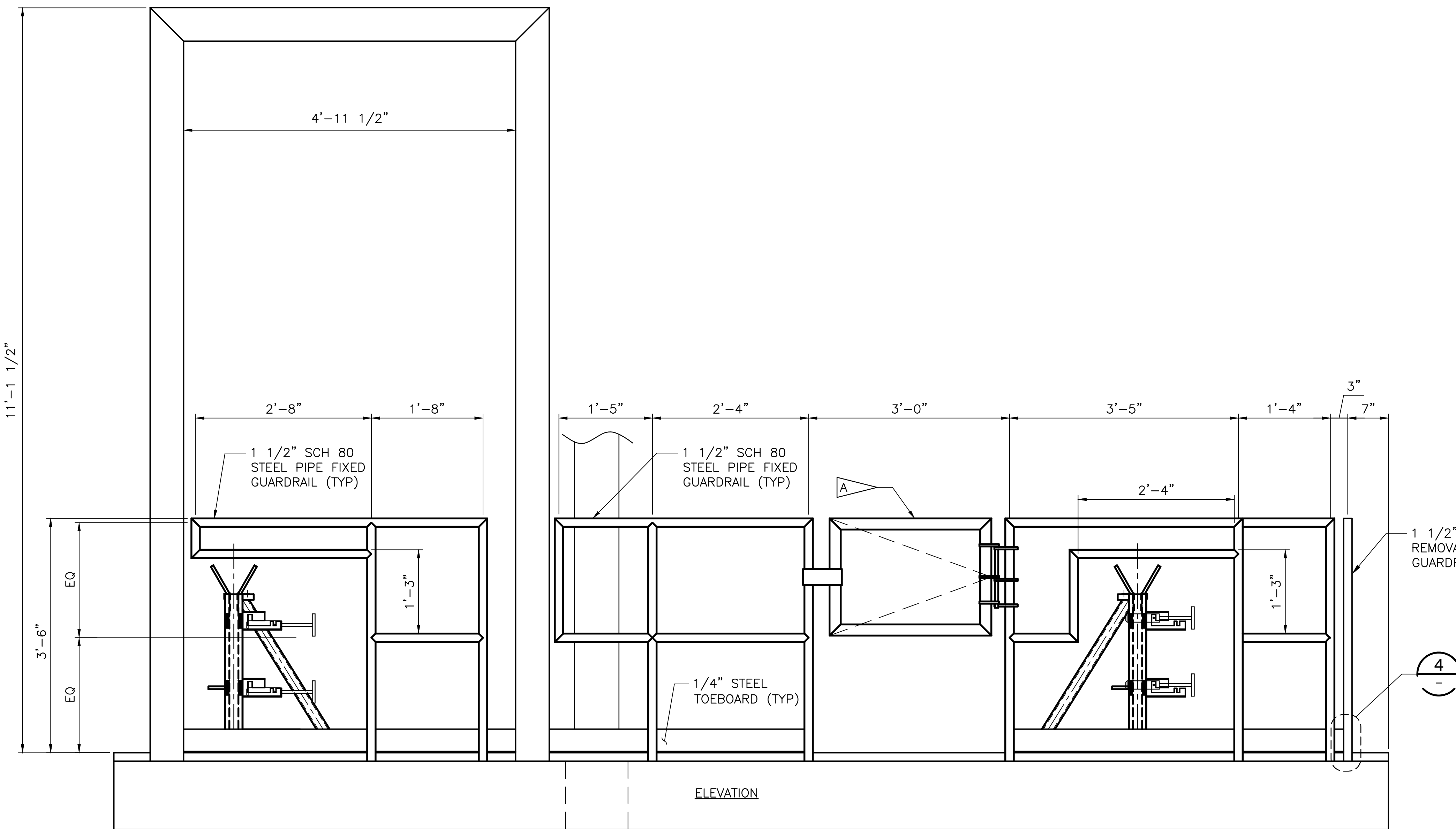
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| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | | |
| DRAWN: BRIAN CURTIS | | 08-20-2013 | JOHN F. KENNEDY SPACE CENTER, NASA | | |
| CHECKED: ALICE SCHULTZ | | 09-20-2013 | KENNEDY SPACE CENTER, FLORIDA | | |
| SUBMITTED: ARCHIVO DE RECORD | | | LAUNCH COMPLEX 39 | | |
| TONY MAZZA | | | VEHICLE ASSEMBLY BUILDING | | |
| ST. OF LICENSURE: FL | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH | | |
| LICENSE NO: | | | BAY 3 FOR SLS – ELEVATOR LANDINGS | | |
| APPROVED: | | | ELEVATOR LANDING PLATFORMS | | |
| JOHN KERSMAR | | | DETAILS AND DOOR SCHEDULE | | |
| | | FILE NO. | SIZE | DWG. NO. | REV |
| | | 302-6058-043 | E | 79K39665 | |
| MIKE HARTNETT | | PROJ. NO. | PCN | 99000. | SHEET 11 OF |

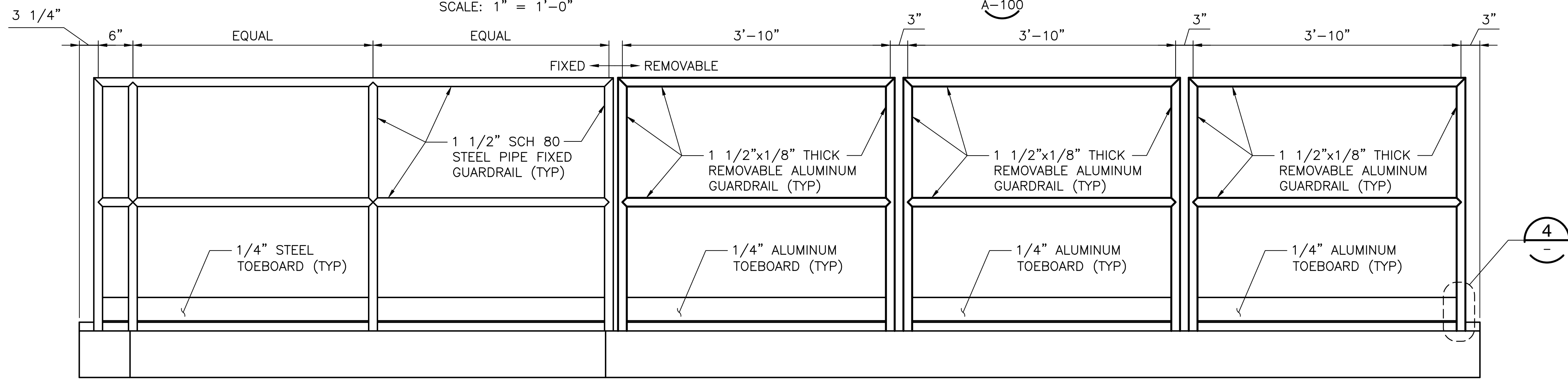
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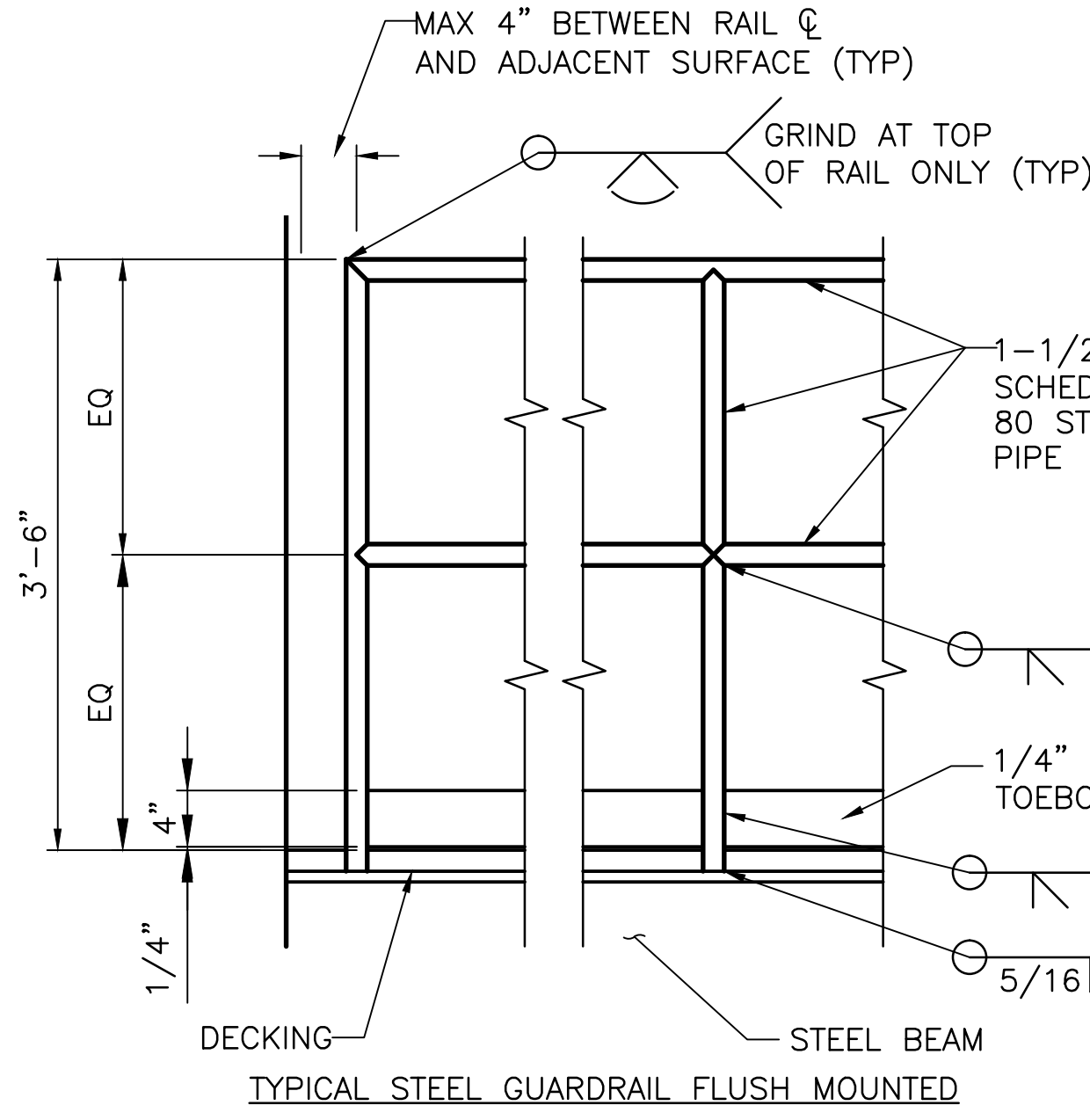
GUARDRAIL AT ELEVATOR LANDING PLATFORM - FIXED
SCALE: 1" = 1'-0"



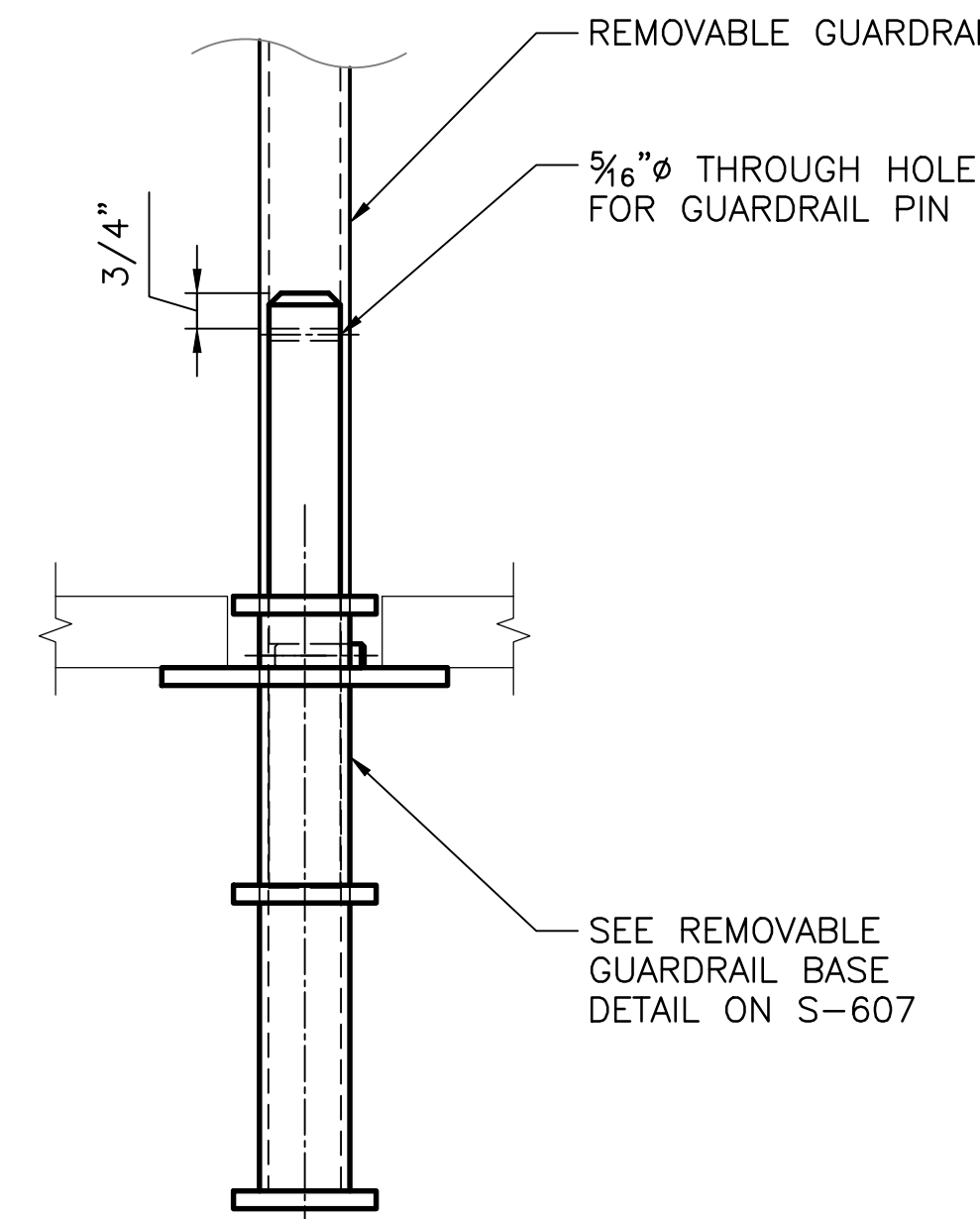
GUARDRAIL AT ELEVATOR LANDING PLATFORM - WITH GATE
SCALE: 1" = 1'-0"



GUARDRAIL AT ELEVATOR LANDING PLATFORM - REMOVABLE
SCALE: 1" = 1'-0"

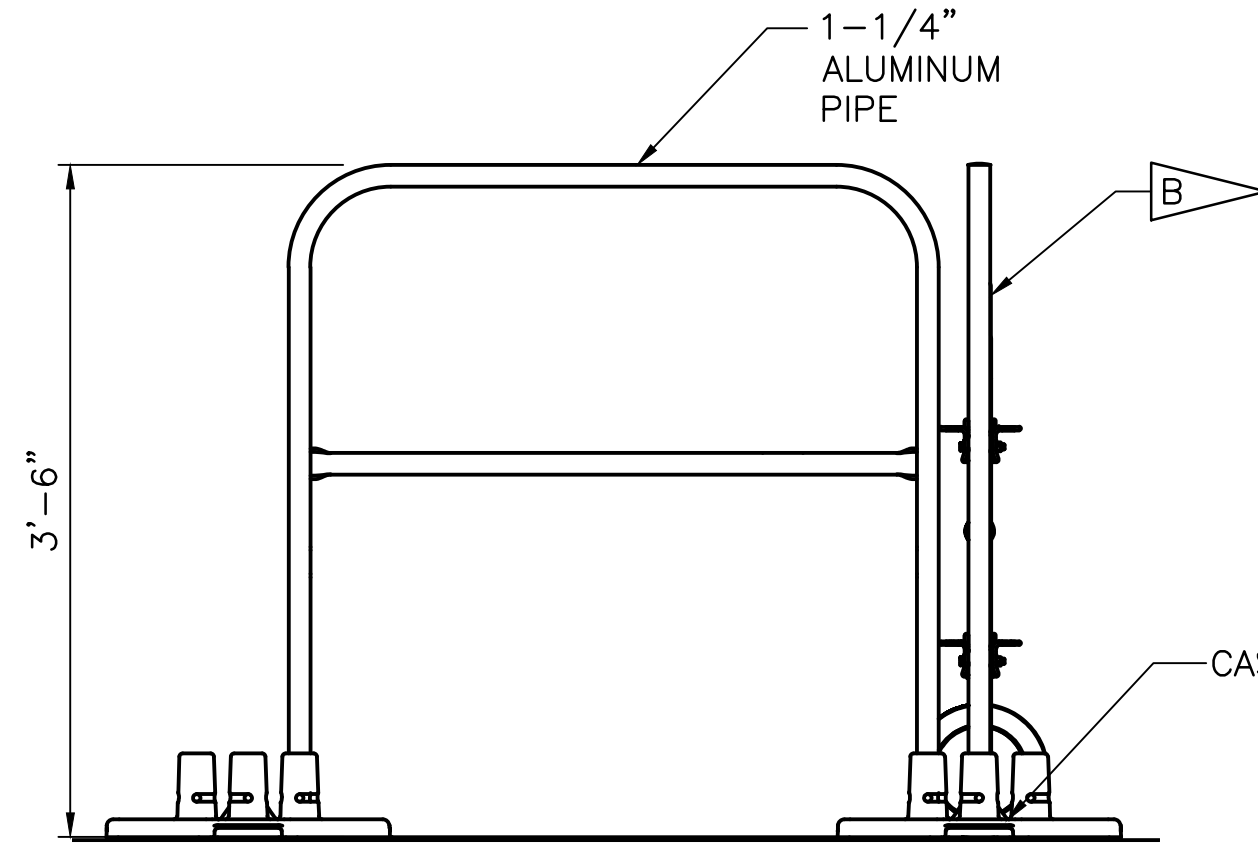


DETAIL
SCALE: 1" = 1'-0"

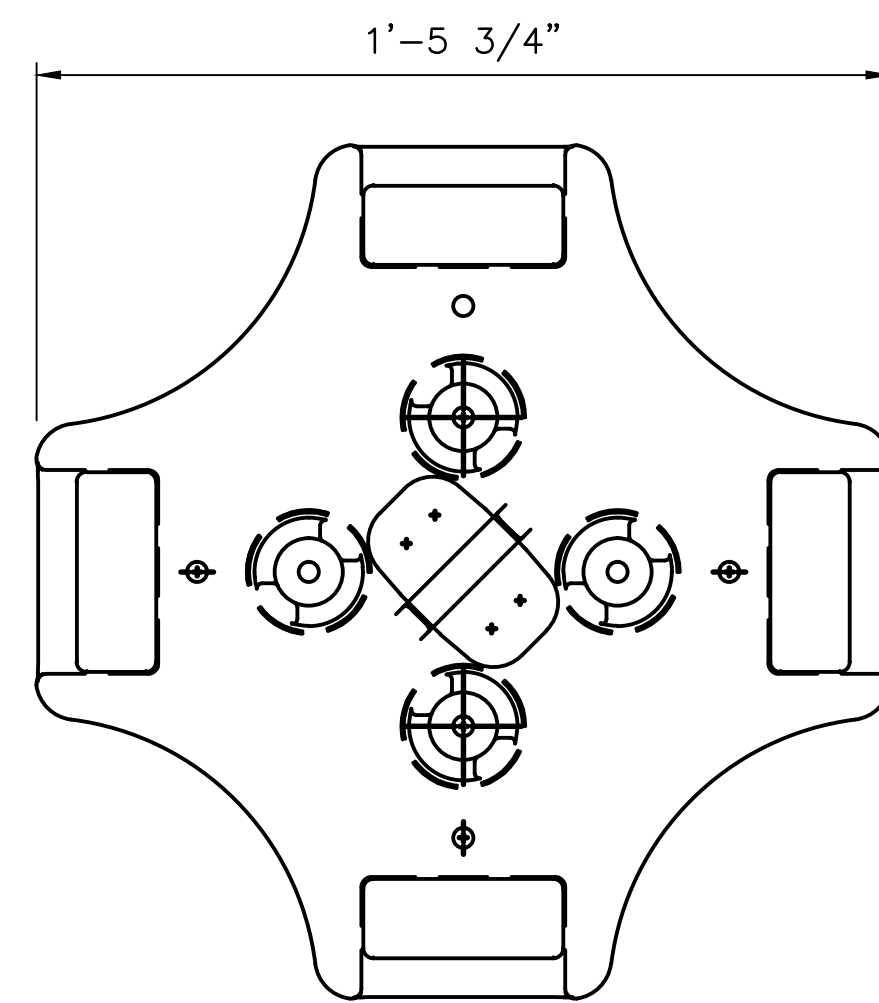


REMOVABLE GUARDRAIL BASE DETAIL
SCALE: 3" = 1'-0"

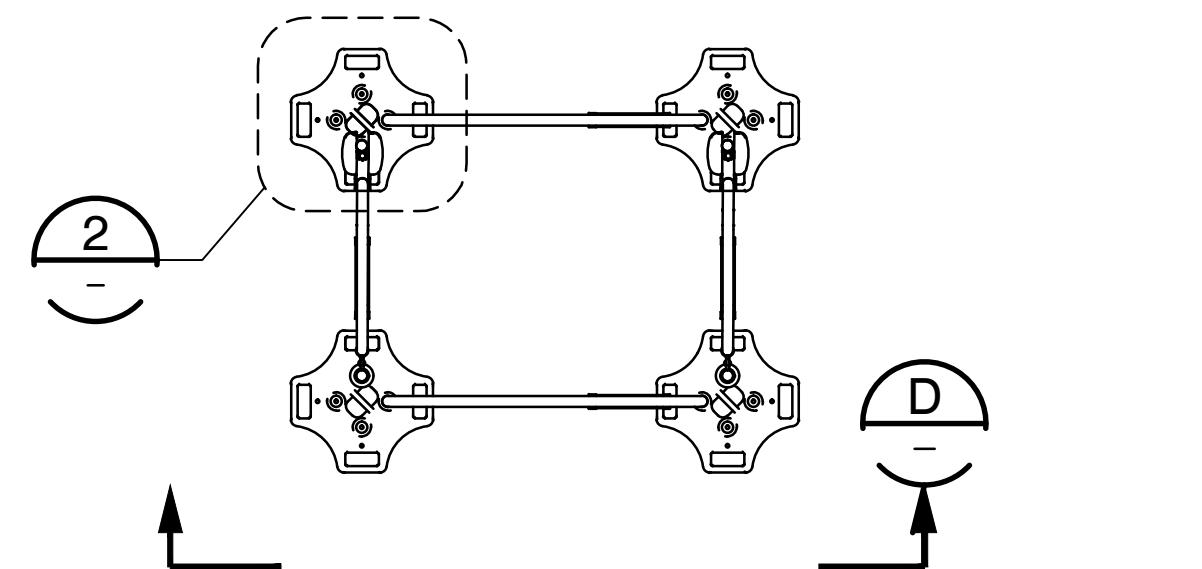
- SPECIFIC NOTES:**
- A GALVANIZED STEEL GATE ASSEMBLY WITH SPRING-LOADED HINGE AND LATCH. SEE SPECIFICATIONS SECTION 05 52 00.
 - B SEE SPECIFICATION SECTION 05 52 00 SECTION 2.10 FOR FURTHER INFORMATION ON PORTABLE REMOVABLE GUARDRAIL.



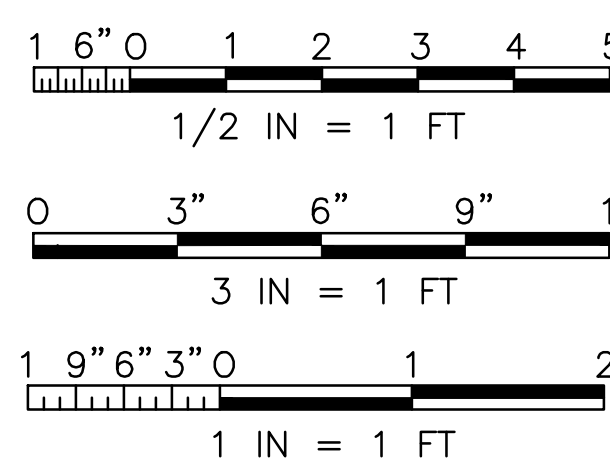
PORTABLE REMOVABLE GUARDRAIL - ELEVATION
SCALE: 1" = 1'-0"



PORTABLE REMOVABLE GUARDRAIL BASE DETAIL
SCALE: 3" = 1'-0"



PORTABLE REMOVABLE GUARDRAIL DETAIL
SCALE: 1/2" = 1'-0"



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| NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | | | | |
| LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS -- ELEVATOR LANDINGS GUARDRAIL AND MISCELLANEOUS DETAILS | | | | |
| SIGNATURES | | DATE | | |
| DRAWN: BRIAN CURTIS | | 08-20-2013 | | |
| CHECKED: ALICE SCHULTZ | | 08-20-2013 | | |
| SUBMITTED ARCHIVING OF RECORD | | | | |
| TONY MAZZA | | | | |
| ST. OF LICENSE: FL | | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERCHMAR | | | | |
| MIKE HARTNETT | | | | |
| FILE NO. | | SIZE | | REV |
| 302-6058-043 | | E | | 79K39665 |
| PROJ. NO. | | PCN | | SHEET 12 OF |
| 99000.5 | | | | |

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1. GENERAL DEMOLITION NOTES:

- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE AREAS AND EXISTING CONDITIONS ASSOCIATED WITH THE WORK TO BE PERFORMED TO UNDERSTAND THE EXISTING FIELD CONDITIONS AND DIFFICULTIES THAT AFFECT EXECUTION OF THE WORK, AS WELL AS TO IDENTIFY SYSTEMS AND EQUIPMENT WHICH ARE TO REMAIN IN PLACE AND MUST BE PROTECTED FROM THE DEMOLITION ACTIVITIES.
- THE CONTRACTOR SHALL REMOVE THE STRUCTURAL ITEMS AND EQUIPMENT IDENTIFIED ON THE DRAWINGS. ITEMS IDENTIFIED FOR REUSE/REINSTALLATION SHALL BE REMOVED, STORED AND PROTECTED DURING CONSTRUCTION ACTIVITIES. ITEMS MARKED TO BE DEMOLISHED AND TURNED OVER TO THE GOVERNMENT ARE THE PROPERTY OF THE GOVERNMENT AND WILL BE SEGREGATED, ITEMIZED AND DISPOSED PER INSTRUCTIONS OF THE CONTRACTING OFFICER.
- THE CONTRACTOR SHALL DISPOSE OF DEBRIS RUBBISH AND OTHER NON-SALVAGEABLE MATERIALS PROMPTLY.
- CONTRACTOR SHALL VERIFY QUANTITIES AND SHALL BE RESPONSIBLE FOR THE WORK WITHIN THE DESCRIPTION OF THE SCOPE.
- THE CONTRACTOR MAY NOT ALTER ANY ELEMENT OUTSIDE THE SCOPE OF THIS PROJECT WITHOUT THE PRIOR APPROVAL OF THE CONTRACTING OFFICER.

2. GENERAL STRUCTURAL NOTES:

- CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING, SHORING, AND OTHER MEASURES TO PROTECT PERSONNEL, STRUCTURES UNDER CONSTRUCTION, AND ADJACENT STRUCTURES DURING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS IN ERECTION SITE PRIOR TO PROCEEDING WITH FABRICATION AND CONSTRUCTION.

3. STRUCTURAL STEEL DESIGN:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE "CODE OF STANDARD PRACTICE" AS CONTAINED IN THE THIRTEENTH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL WITH THE FOLLOWING EXCEPTION. DIMENSION TOLERANCES PRESCRIBED ON THE DRAWINGS ARE TO BE ADHERED TO AS WELL AS THE FABRICATION AND ERECTION TOLERANCES PRESENTED IN THE "CODE OF STANDARD PRACTICE."
- STRUCTURAL STEEL PROPERTIES UNLESS OTHERWISE NOTED:

PLATE THICKNESS <= 4":ASTM A572, GRADE 50
HSS SHAPES: ASTM A500 GRADE B
W SHAPES:
EXISTING: ASTM 36
NEW: ASTM A992, GRADE 50
B SHAPES EXISTING: ASTM 36
ANGLES AND CHANNEL SHAPES:
EXISTING: ASTM 36
NEW: ASTM A992, GRADE 50
STRUCTURAL STEEL BOLTS: ASTM A325
STRUCTURAL STEEL NUTS: ASTM A563
STRUCTURAL STEEL WASHERS: ASTM F436

ANY CARBON STEEL MATERIAL DESIGNATED TO BE HOT-DIPPED GALVANIZED SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. ALL CARBON STEEL FASTENERS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND THE REQUIREMENTS OF NASA-SPEC-5004. WELDERS AND WELDING OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.1 ALL WELDS REQUIRE A CLASS B INSPECTION UNLESS NOTED AS CLASS A IN THE WELD SYMBOL OR IN THE WELDMENT NOTATION.
- SUBSTITUTIONS OF SPECIFIED MEMBER SIZE OR CHANGE IN DETAILS OR DIMENSIONS OF ANY KIND SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONTRACTING OFFICER OR HIS/HER DESIGNEE.
- WELDED JOINTS SHALL CONFORM TO SECTION J2 OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS -- ASD.
- SHOP CONNECTIONS SHALL BE WELDED UNLESS OTHERWISE NOTED.
- BRACING AND TRUSS CONNECTIONS SHALL BE SIZED TO DEVELOP THE LOAD SPECIFIED ON THE DESIGN DRAWINGS OR 75% OF THEIR TENSION CAPACITY. A MINIMUM CONNECTION SHALL CONSIST OF TWO BOLTS.
- ALL CONNECTION SHOP DRAWINGS SHALL BE DESIGNED AND SEALED BY A REGISTERED FLORIDA P.E. COPIES OF ALL SHOP DRAWING CALCULATIONS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL AT SAME TIME AS CONNECTION SHOP DRAWINGS.
- ERECTION BOLTS, PLATE SHIMS, AND TEMPORARY FASTENINGS REQUIRED FOR ERECTION SHALL BE FURNISHED BY THE STEEL ERECTOR. ALL PLATES, EXTRA FRAMING, AND OTHER COMPONENTS NOT DEPICTED ON THESE DRAWINGS THAT HAVE BEEN ADDED FOR EASE OF FABRICATION AND ERECTION SHALL BE REMOVED AFTER USE, AS WELL AS ANY SPATTER AND WELD SCARS SHALL BE GROUND OFF AND REPAIRED. STEEL COATINGS SHALL BE TOUCHED UP PER SPECIFICATION SECTION 09 97 13.00 98 PARAGRAPH 3.4.
- SHOP AND FIELD SPLICES OF STRUCTURAL MEMBERS ARE PROHIBITED EXCEPT AS SHOWN ON THE DRAWING AND/OR PERMITTED IN THE SPECIFICATIONS AND AS SPECIFICALLY APPROVED ON SHOP DRAWINGS PRIOR TO FABRICATION.
- BOLT HOLES SHALL NOT BE CUT, ALIGNED OR ENLARGED BY FLAME CUTTING IN THE FIELD.
- MILLED ENDS FOR INTERMEDIATE OR BEARING STIFFENERS ARE NOT REQUIRED UNLESS NOTED OTHERWISE. WELD STIFFENERS AS INDICATED ON DRAWINGS.
- AXIALLY STRESSED MEMBERS MEETING AT A POINT SHALL HAVE THEIR GRAVITY AXIS MEET AT A POINT IF PRACTICAL; IF NOT, PROVISIONS SHALL BE MADE FOR BENDING STRESSES DUE TO ECCENTRICITY.
- GUSSET PLATES SHALL BE A MINIMUM OF 1/2" THICK. ANY CROSS SECTION OF THE GUSSET, WELD OR BOLT GROUP SHALL BE DESIGNED TO DEVELOP THE AXIAL LOAD INDICATED OR THE FULL CAPACITY OF THE BOLT GROUP, WHICHEVER IS LARGER, PLUS ANY BENDING DUE TO ECCENTRICITY. THIS THICKNESS REQUIREMENT DOES NOT APPLY TO SHEAR TABS FOR THE FLOOR STEEL CONNECTIONS.
- BOLTED JOINTS SHALL CONFORM TO THE PROVISIONS OF SECTION J3 OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS -- ASD.
- ALL BOLTED JOINTS SHALL USE FIBER TYPE LOCK NUTS UNLESS OTHERWISE NOTED.
- SIZES, SPACING AND QUANTITY OF BOLTS FOR EQUIPMENT TO BE FURNISHED BY SUBCONTRACTORS SHALL BE DETERMINED BY THE CONTRACTOR AND COORDINATED WITH ALL SUBCONTRACTORS PRIOR TO PREPARATION OF SHOP DRAWINGS.

- ONE FORTH INCH (1/4") THICKNESS WELDED CLOSURE PLATE SHALL BE PROVIDED AT OPEN ENDS OF ALL PIPE MEMBERS UNLESS OTHERWISE NOTED. CONNECT TO PIPE MEMBERS WITH 3/16" SINGLE BEVEL GROOVE WELD.

- REQUESTS FOR PENETRATIONS THROUGH WIDE FLANGE BEAMS MUST BE APPROVED BY THE CONTRACTING OFFICER.
- BREAK SHARP EDGES TO BE PAINTED WITH 1/8" RADIUS MINIMUM.

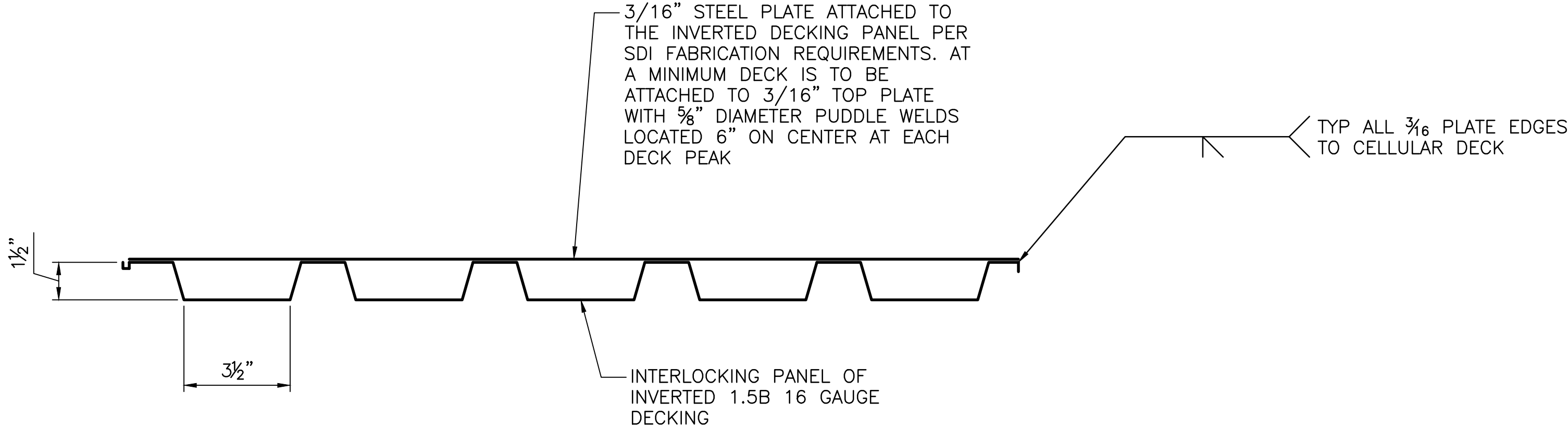
4. METAL CELLULAR DECK:

- METAL CELLULAR DECKING SHALL BE 1.5B 18/20 CELLULAR DECK WITH 3/16" STEEL PLATE ATTACHED TO DECK PER THE SDI FABRICATION REQUIREMENTS:
HEIGHT OF DECK: 1.5"
NOMINAL WIDTH OF CELLS 3.5"
MINIMUM PAN THICKNESS 16 GAUGE
DECK SECTION PROPERTIES (MINIMUM): Ip = 0.373in^4/FT, Sp = 0.408in^3/FT, Sn = 0.411in^3/ft
GALVANIZED ASTM A653 STEEL
NO INTERNAL INSULATION
BASIS OF DESIGN: 1.5B DECK WITH 3/16" STEEL PLATE ATTACHED.
SEE TYPICAL DECKING DETAIL

5. DESIGN CAPACITY:

- ELEVATOR LANDING PLATFORMS ARE DESIGNED FOR THE FOLLOWING CONDITIONS. SEE ARCHITECTURAL NOTES FOR SIGNAGE.

INSTALLED CONDITION A: LIVE LOAD OF 100 PSF OR
INSTALLED CONDITION B: 8000 LBS CART AND LIVE LOAD OF 100 PSF AROUND CART (3000 LBS MAX)
LIFTING CONDITION: LIVE LOAD OF 50 PSF LIMITED ADJACENT TO THE VAB CONNECTIONS (4500 LBS MAX)



TYPICAL DECKING DETAIL

SCALE: NTS



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| DRAWN: JOSEPH HAUER | 08-20-2013 | JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | | |
| CHECKED: STEVE MOORE | 08-20-2013 | LAUNCH COMPLEX 39 | | |
| SUBMITTED ARCHIVING OF RECORD | 08-20-2013 | VEHICLE ASSEMBLY BUILDING | | |
| ST. OF LICENSURE: FL | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS -- ELEVATOR LANDINGS | | |
| LICENSE NO: 14624 | | STRUCTURAL GENERAL NOTES | | |
| APPROVED: | | FILE NO. 302-6058-043 | SIZE E | TOWNSHIP NO. 79K39665 |
| JOHN KEROSMAR | | PROJ. NO. PCN 99000.5 | SHEET 13 | OF |
| MIKE HARTNETT | | | | |

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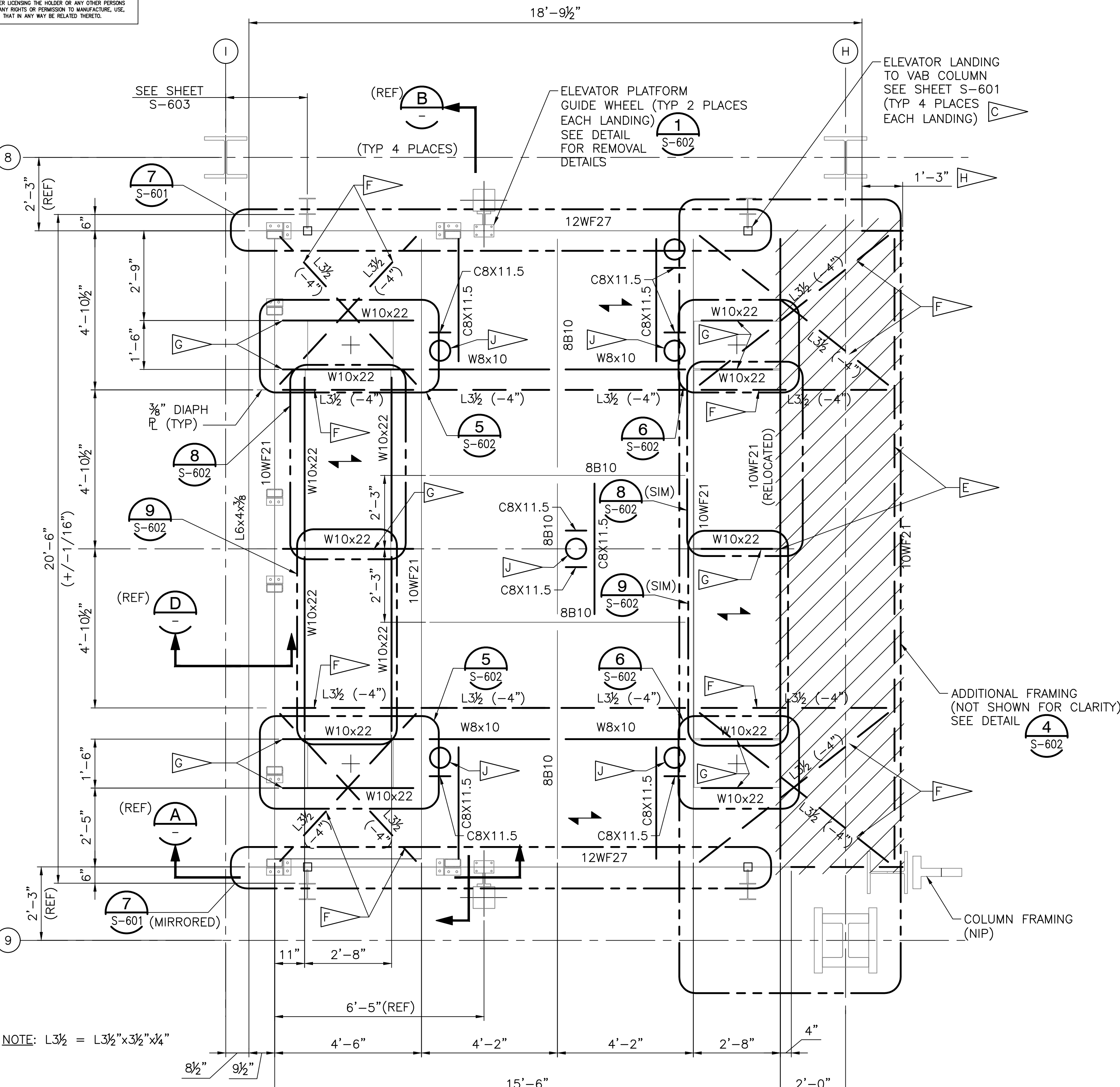
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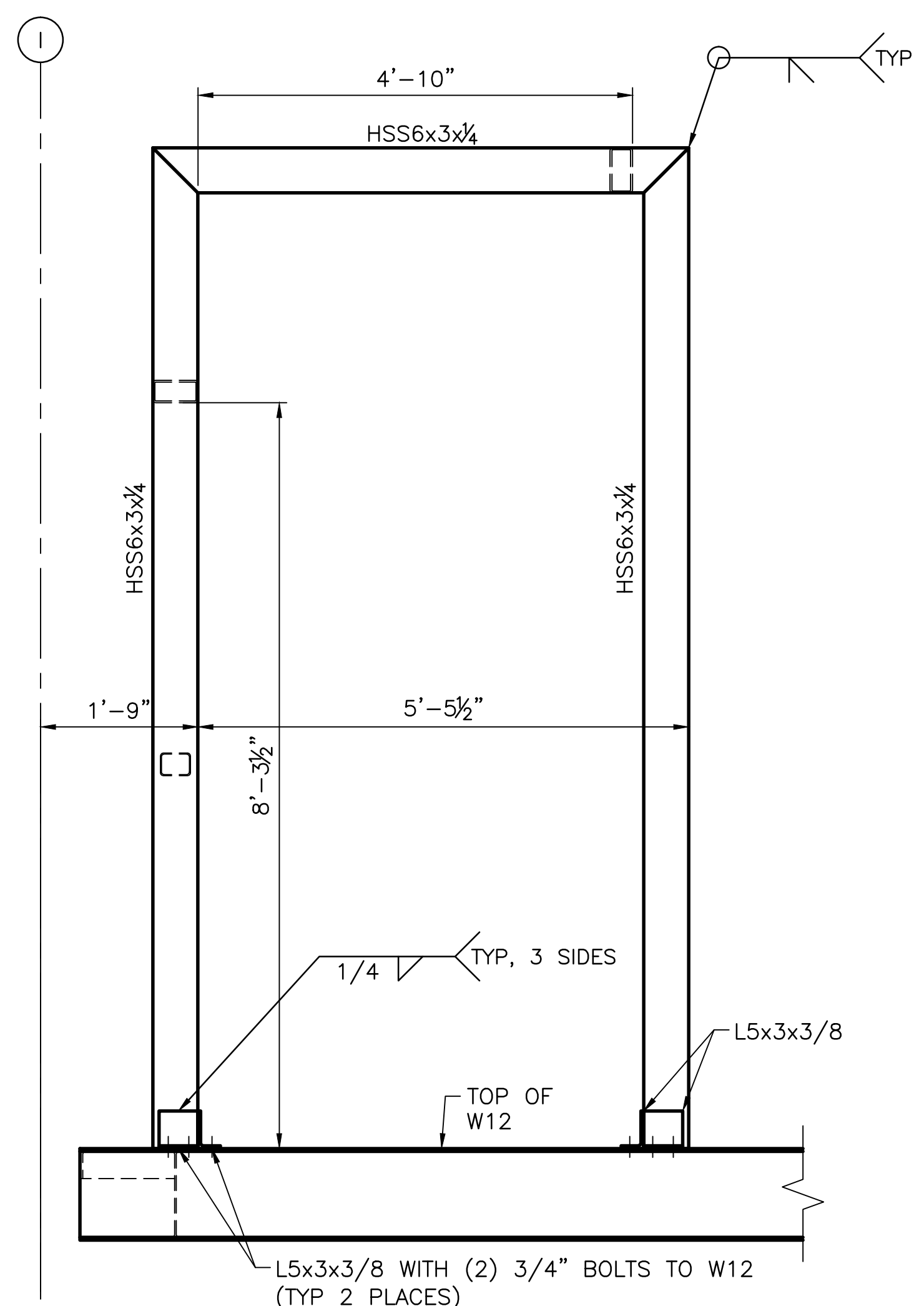
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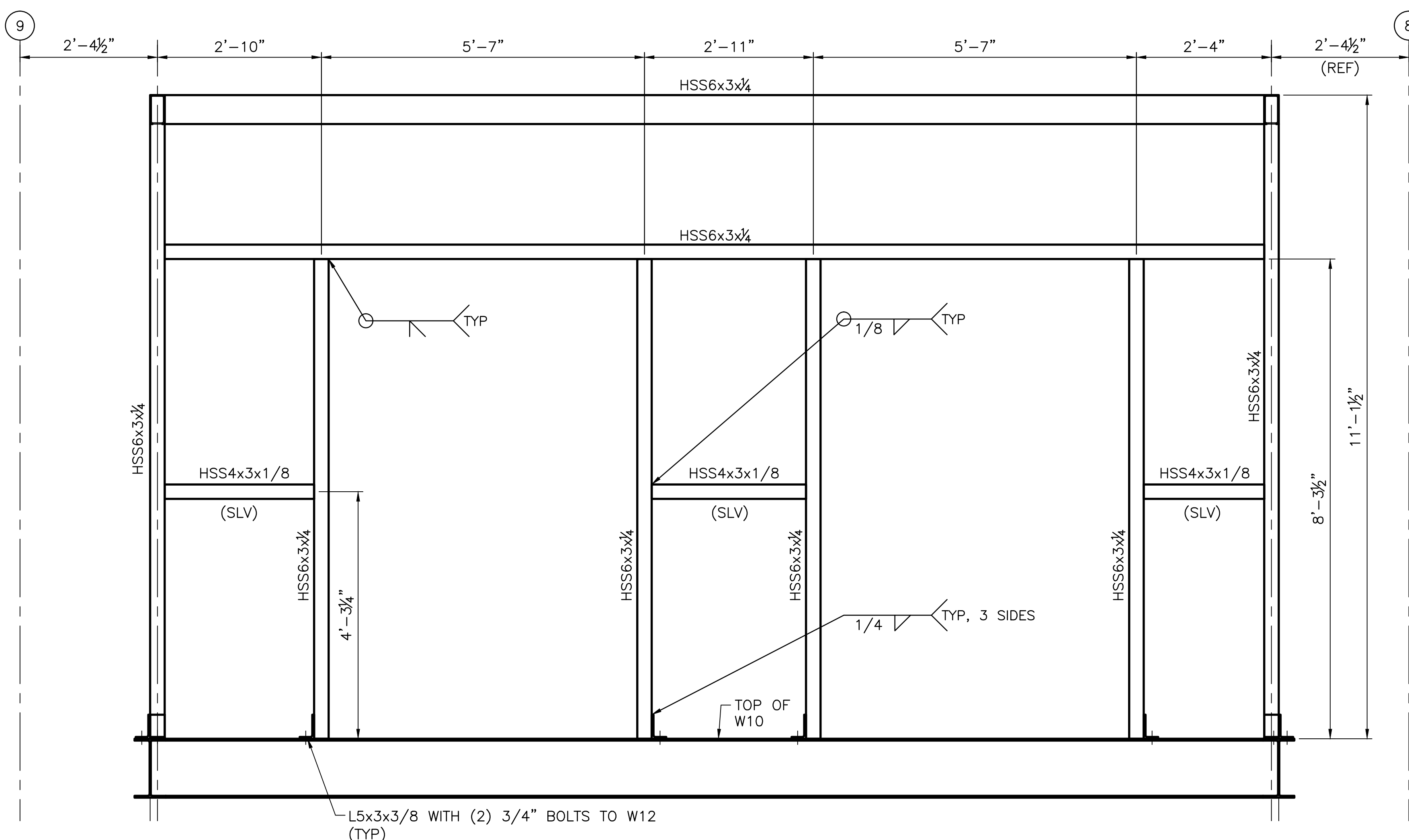
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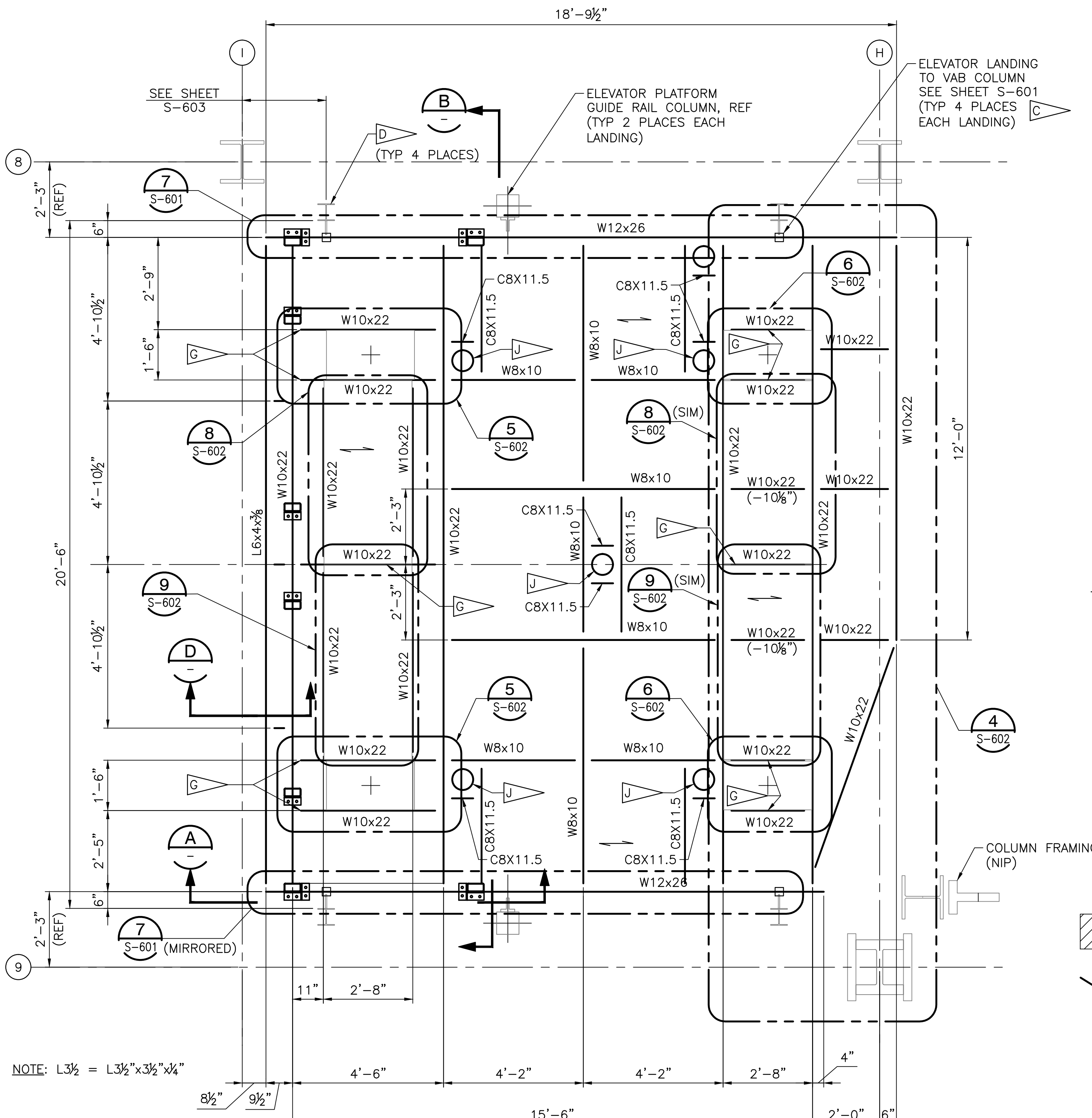
(TOWER E PLATFORMS SHOWN)
(TOWER F PLATFORMS OPPOSITE HAND)
(TYP 4 PLACES IN TOWER F)
(TYP 5 PLACES IN TOWER E)
EXISTING ELEVATOR LANDING PLATFORMS
SCALE: 1/2"=1'-0"



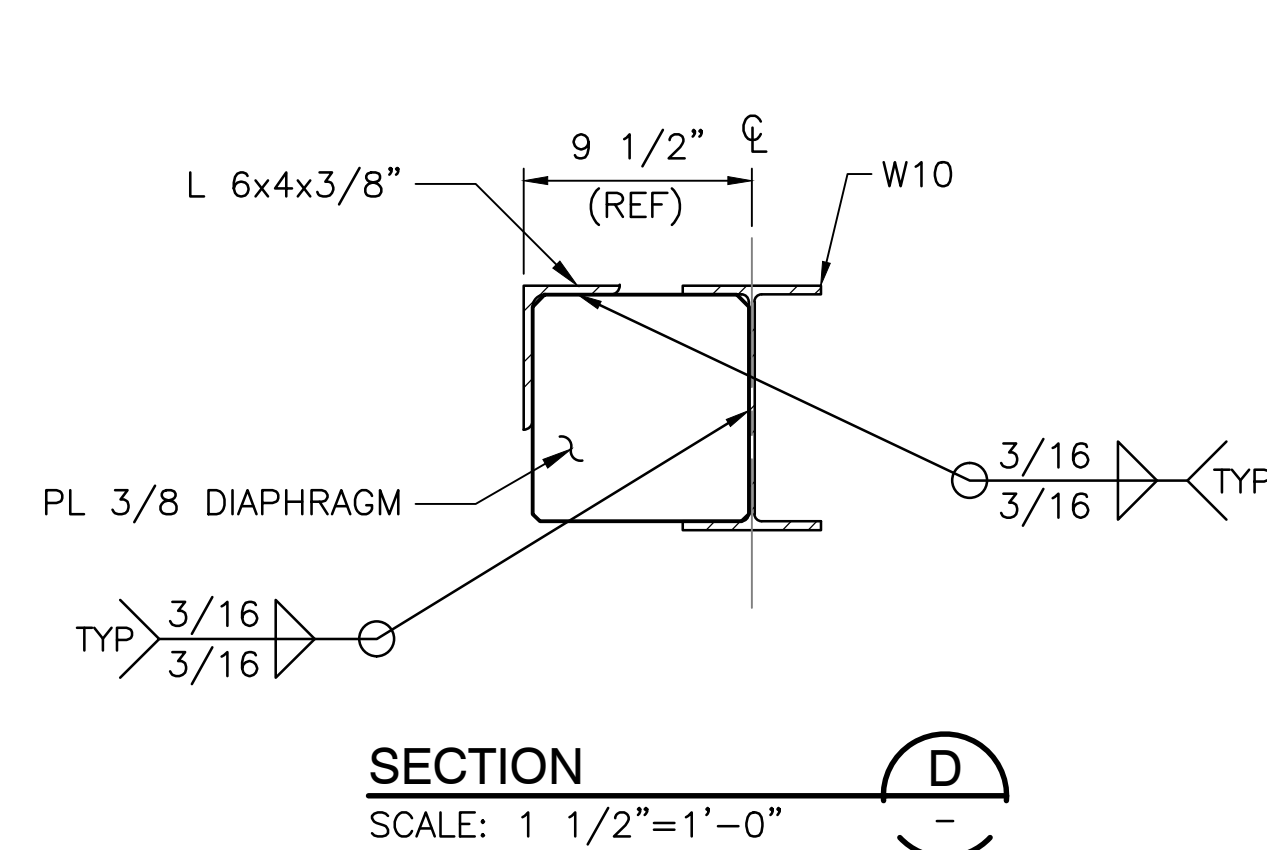
(TYP BOTH ENDS OF PLATFORMS)
(HSS FRAME EXISTS ON EXISTING PLATFORMS)
ELEVATION
SCALE: 3/4"=1'-0"



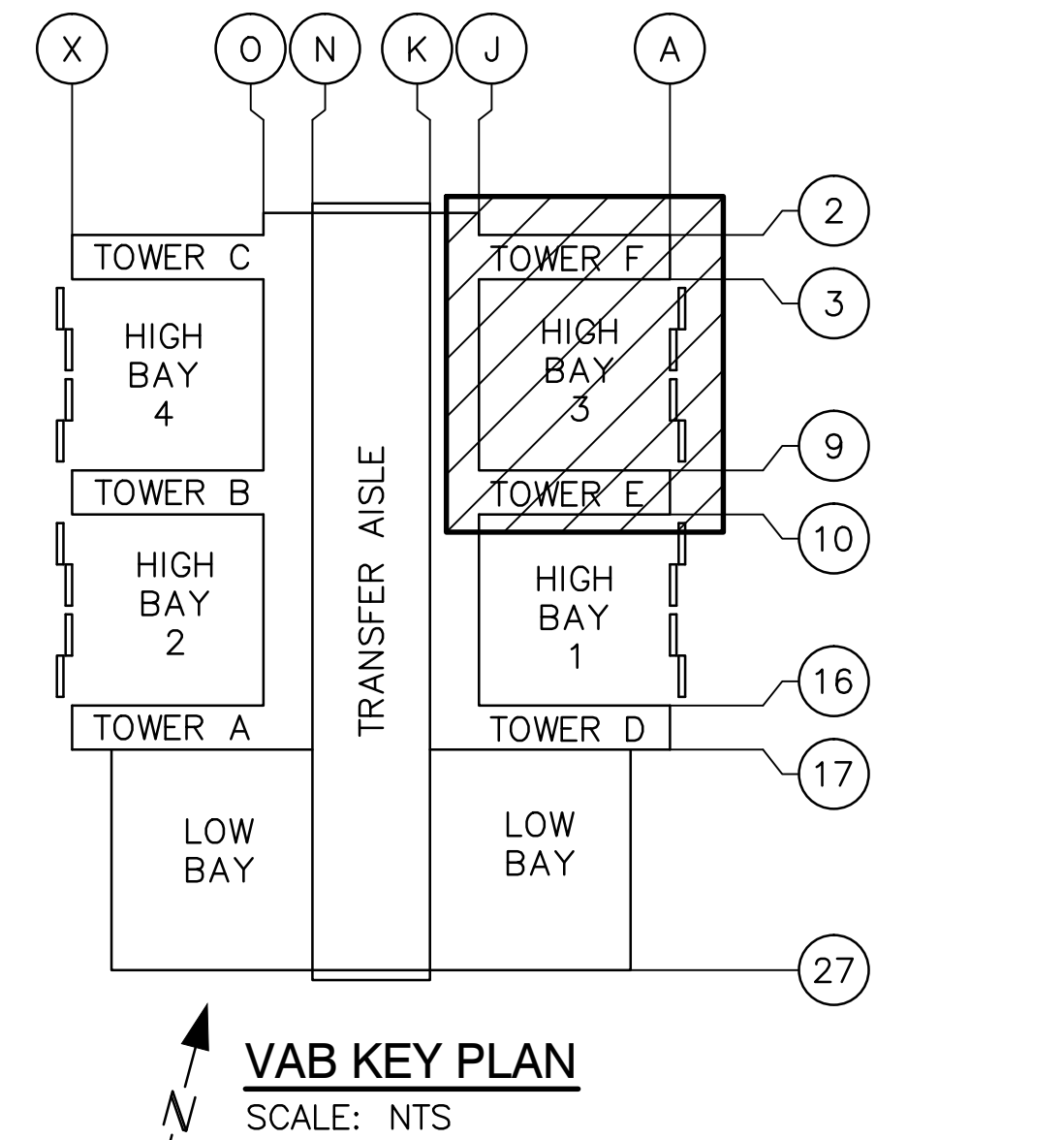
(HSS FRAME EXISTS ON EXISTING PLATFORMS)
SECTION
SCALE: 3/4"=1'-0"



(TOWER E PLATFORMS SHOWN)
(TOWER F PLATFORMS OPPOSITE HAND)
(TYP 6 PLACES IN TOWER F)
(TYP 5 PLACES IN TOWER E)
NEW ELEVATOR LANDING PLATFORMS
SCALE: 1/2"=1'-0"



SECTION
SCALE: 1 1/2"=1'-0"



VAB KEY PLAN
SCALE: NTS

SPECIFIC NOTES:

- A. FRAMING BETWEEN COLUMN LINES 3 AND 4 OPPOSITE HAND.
- B. UNLESS OTHERWISE NOTED, ALL FRAMING MEMBERS SHALL BE STANDARD AISC CONNECTIONS DESIGNED TO THE 13th EDITION AISC STEEL MANUAL REQUIREMENTS. THE FOLLOWING MINIMUM ASD DESIGN LOADS SHALL BE MET FOR:
W10's: SHEAR: 15 KIPS AXIAL: 5 KIPS
W8's: SHEAR: 14 KIPS AXIAL: 5 KIPS
L6x4: SHEAR: 1 KIP
C8'S: SHEAR: 16 KIPS AXIAL: 1 KIP
- C. SEE SHEET S-602 FOR REMOVAL OF EXISTING CORBEL SUPPORT INFORMATION.
- D. REMOVE EXISTING 6WF15 HANGER AT CONNECTION POINTS. EXISTING HANGER RUNS BETWEEN FLOOR LEVELS 36 AND LEVEL 9. SEE SHEET S-603 FOR TYPICAL CONNECTION DETAILS. INSTALL NEW W6x15 HANGER PER DETAIL 2/S-603 FOR W6 INSTALLED ALONG COLUMN LINES 3 AND 9, SEE DETAIL 3/S-603 FOR W6 INSTALLED ALONG COLUMN LINES 4 AND 8. SEE SHEET S-603 FOR INSTALLATION DIMENSIONS.
- E. RELOCATE EXISTING 10WF21 AND TRIM REMAINING FRAMING.
- F. NOT USED.
- G. SEE SHEETS M-401 TO M-404 FOR ADDITIONAL W10 FRAMING DETAILS.
- H. LIMIT OF WF12 REMOVAL.
- J. FALL PROTECTION POST SOCKET, SEE SHEET S-607 FOR DETAILS.

LEGEND:

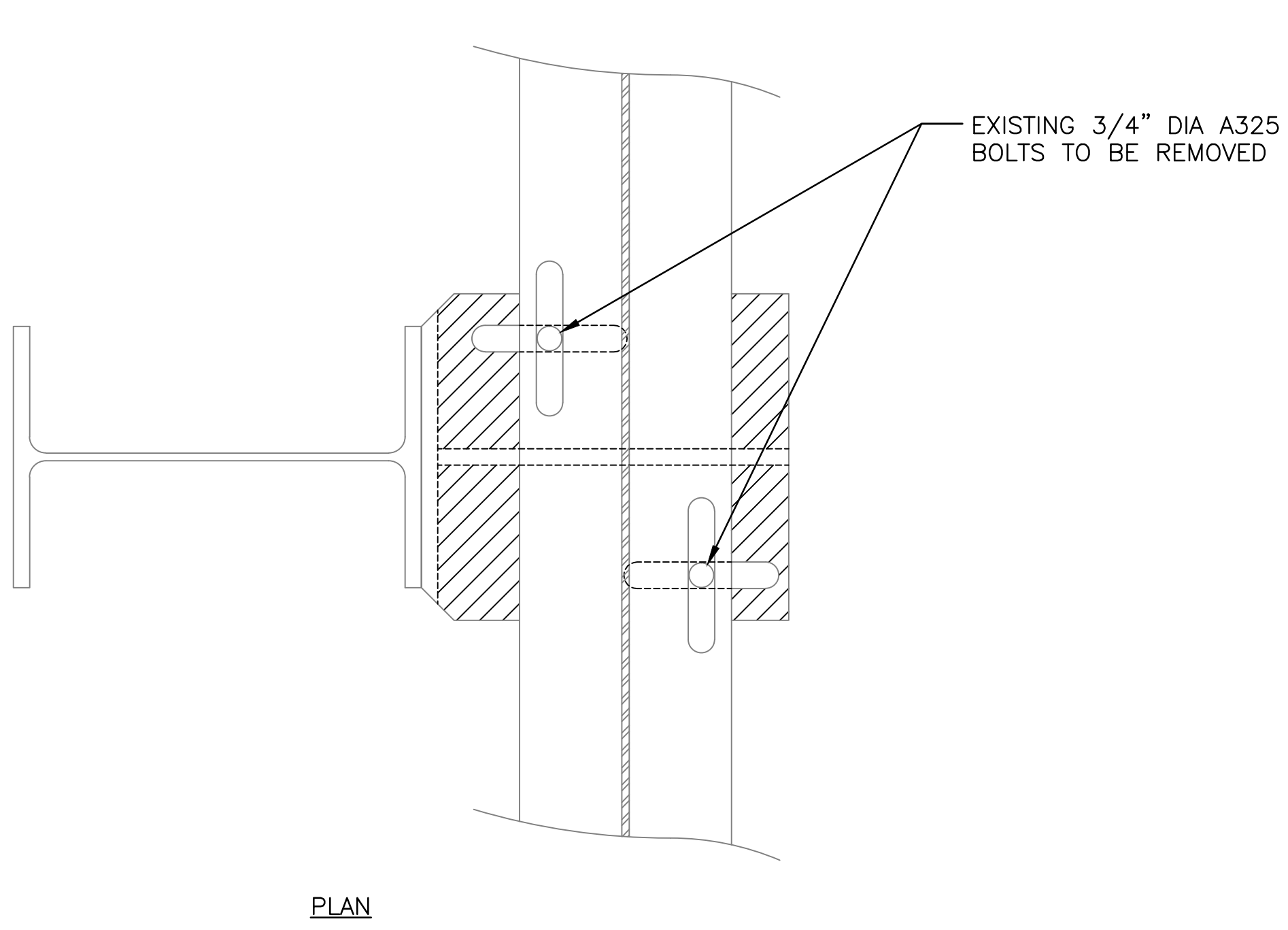
- SPAN DIRECTION OF INVERTED 1.5B 16 GAUGE METAL DECK WITH 3/16" THICK STEEL PLATE ATTACHED TO METAL DECK PER THE SDI FABRICATION REQUIREMENTS. PROVIDE 1-3/8" HOLE THRU TOP OF DECK FOR FASTENER INSTALLATION. INSTALL 1/2" DIA-13 (A307/A325 HDG) THRU BOLT WITH HEAVY DUTY, LOCKING HEX NUTS. ONLY 2 BOLTS PER 24" WIDE DECK PANEL AT EACH BEAM ARE REQUIRED. PROVIDE SNAP BLANKS TO CLOSE HOLES IN TOP OF DECK. EXTEND DECKING TO EDGE OF PERIMETER BEAM FLANGES.
- SPAN DIRECTION OF EXISTING 1.5BP 14/14 INVERTED METAL CELLULAR DECK. REMOVE EXISTING DECK PANELS AND INSTALL INVERTED 1.5B 16 GAUGE METAL DECK WITH 3/16" THICK STEEL PLATE ATTACHED TO METAL DECK PER THE SDI FABRICATION REQUIREMENTS. PROVIDE 1-3/8" HOLE THRU TOP OF DECK FOR FASTENER INSTALLATION. INSTALL 1/2" DIA-13 (A307/A325 HDG) THRU BOLT WITH HEAVY DUTY, LOCKING HEX NUTS. ONLY 2 BOLTS PER 24" WIDE DECK PANEL AT EACH BEAM ARE REQUIRED. PROVIDE SNAP BLANKS TO CLOSE HOLES IN TOP OF DECK. EXTEND DECKING TO EDGE OF PERIMETER BEAM FLANGES.
- INDICATES AREA OF EXISTING LANDING TO BE REMOVED.
- INDICATES MEMBER TO BE REMOVED.

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|---|--------------|-------------|------|----------|
| REVISIONS | | | | |
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| NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | | | | |
| LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS ELEVATOR LANDING PLAN | | | | |
| SIGNATURES | DATE | | | |
| DRAWN: JOSEPH HAUER | 08-20-2013 | | | |
| CHECKED: STEVE MOORE | 08-20-2013 | | | |
| SUBMITTED ARCHIVING OF RECORD | | | | |
| ST OF LICENSURE: FL | | | | |
| LICENSE NO: 74624 | | | | |
| APPROVED: | | | | |
| JOHN KERGMAR | | | | |
| MIKE HARTNETT | | | | |
| FILE NO: | 302-6058-043 | SIZE | E | 79K39665 |
| PROJ. NO. | PCN 99000.5 | SHEET | 14 | OF |

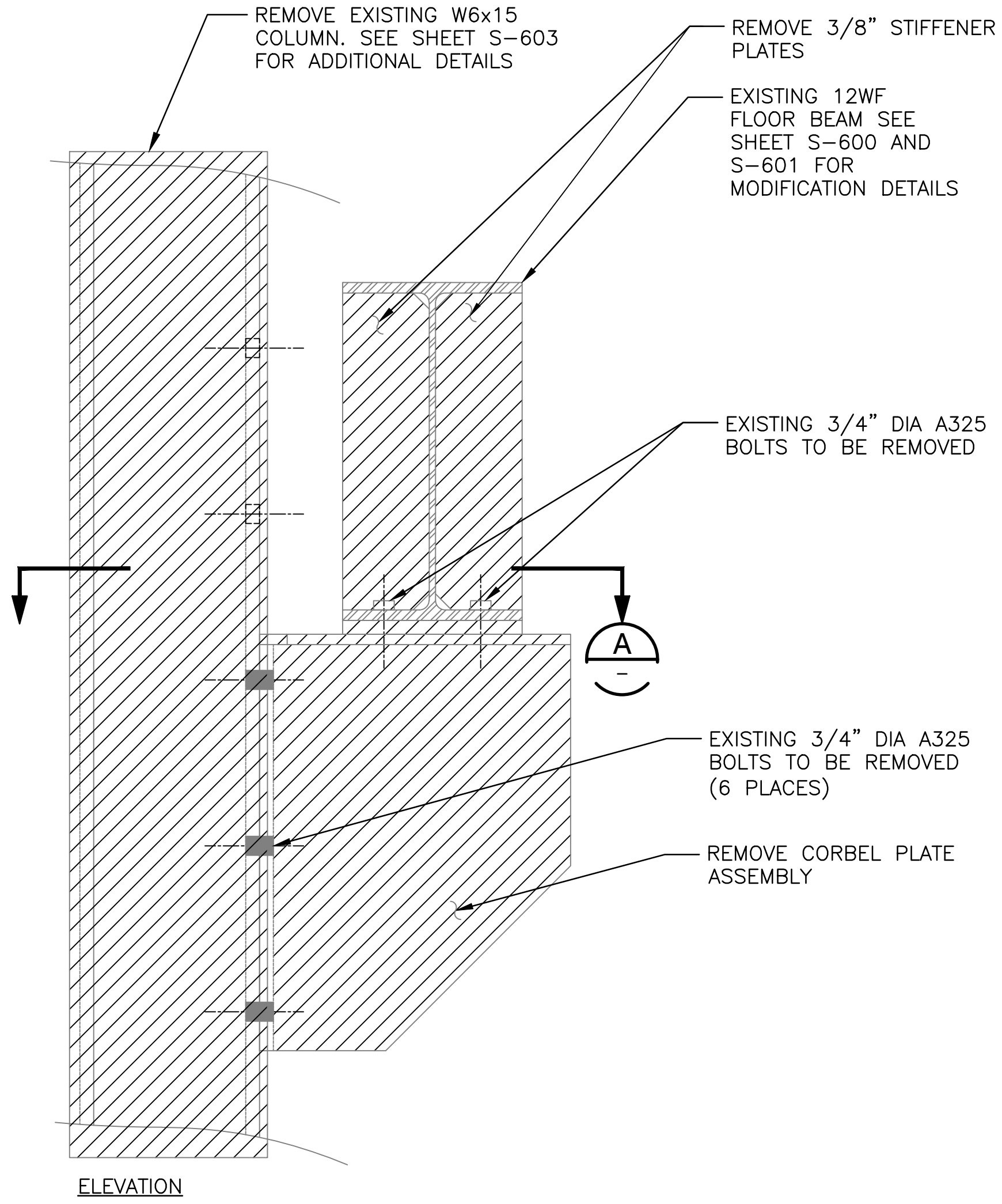
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THIS COMPUTER DRAWING WAS
CREATED IN AUTOCAD AND
FILED UNDER THE DRAWING NUMBER

S-600

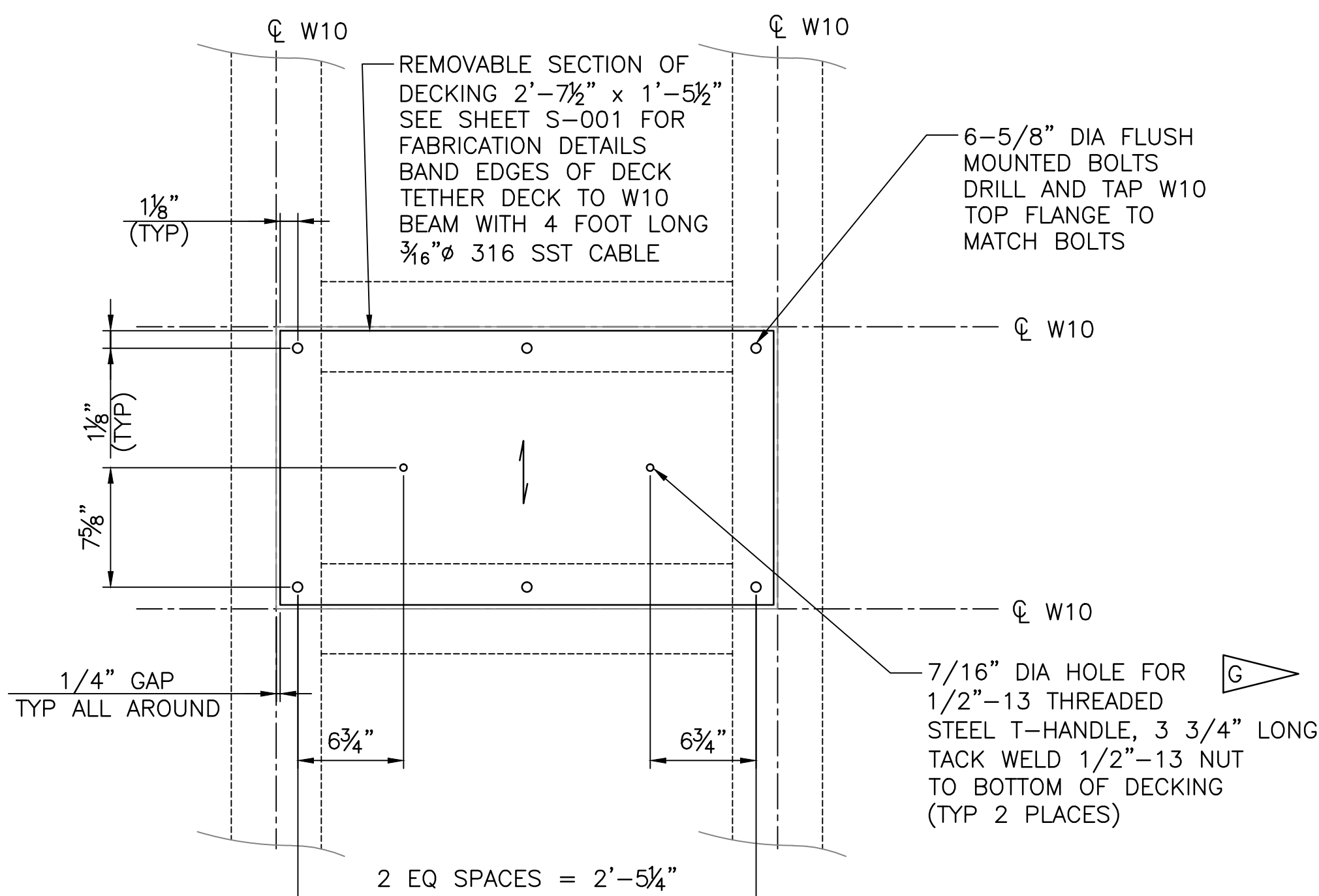
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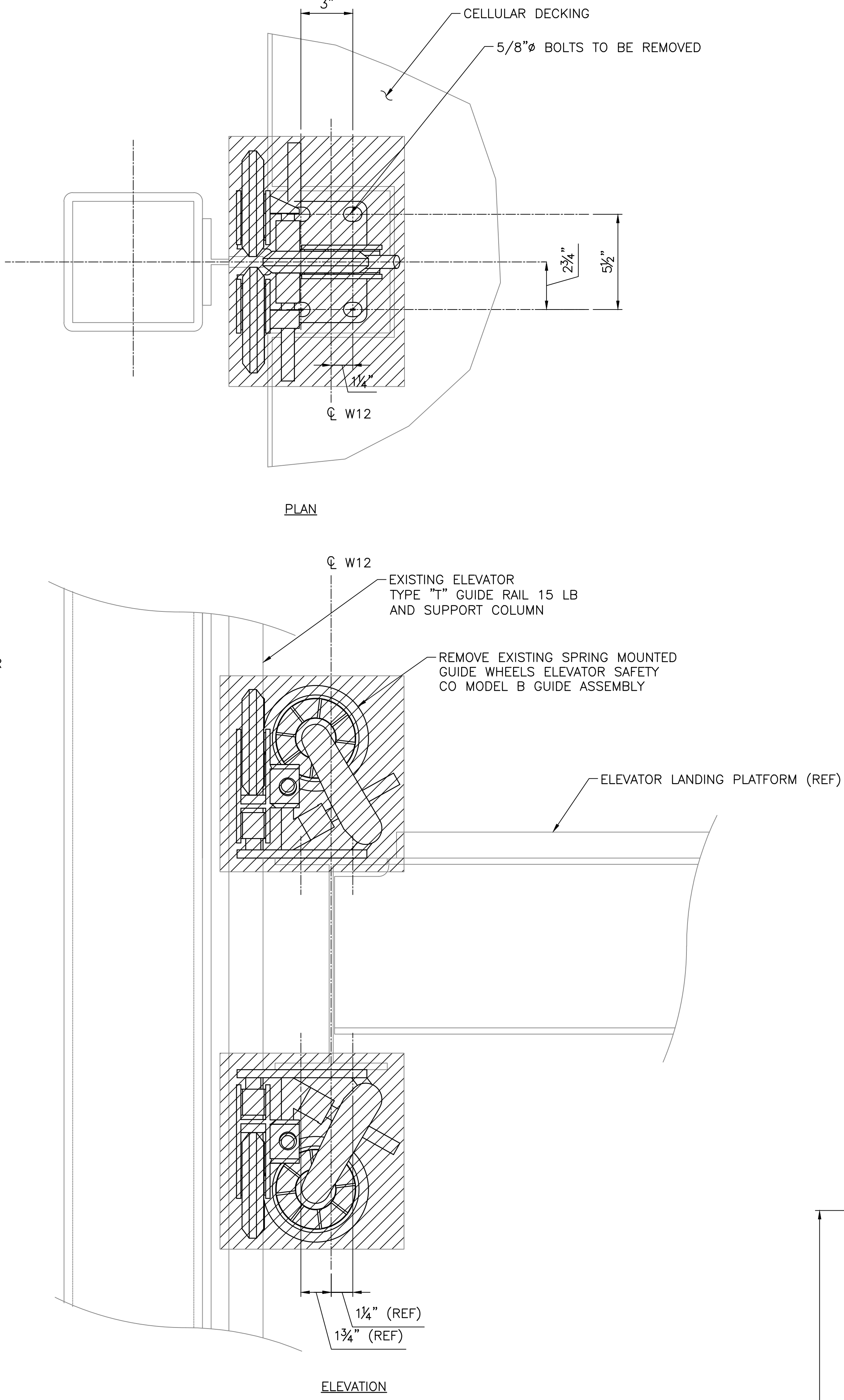
SECTION
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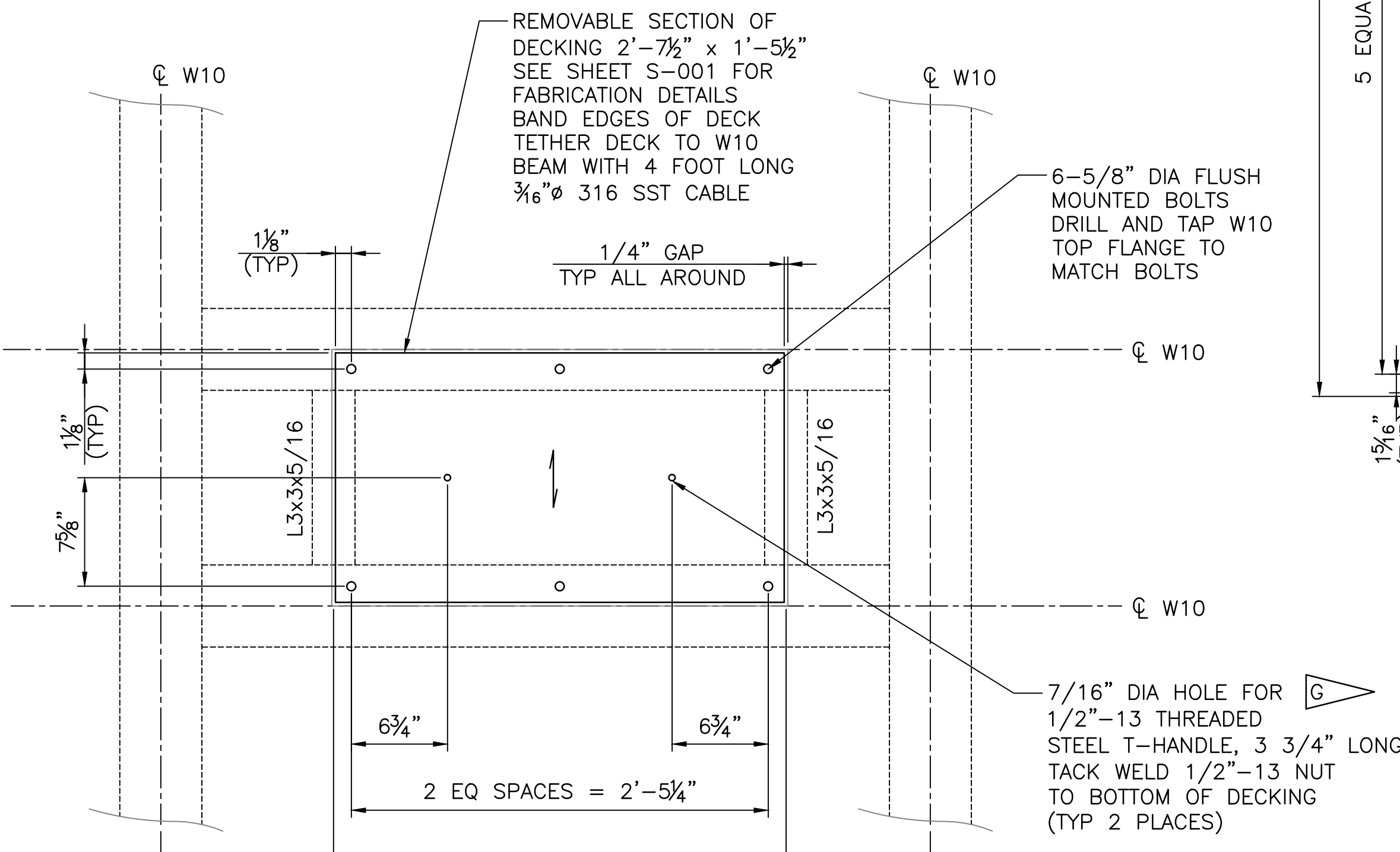
EXISTING ELEVATOR LANDING SUPPORT CORBEL
SCALE: 3"=1'-0"



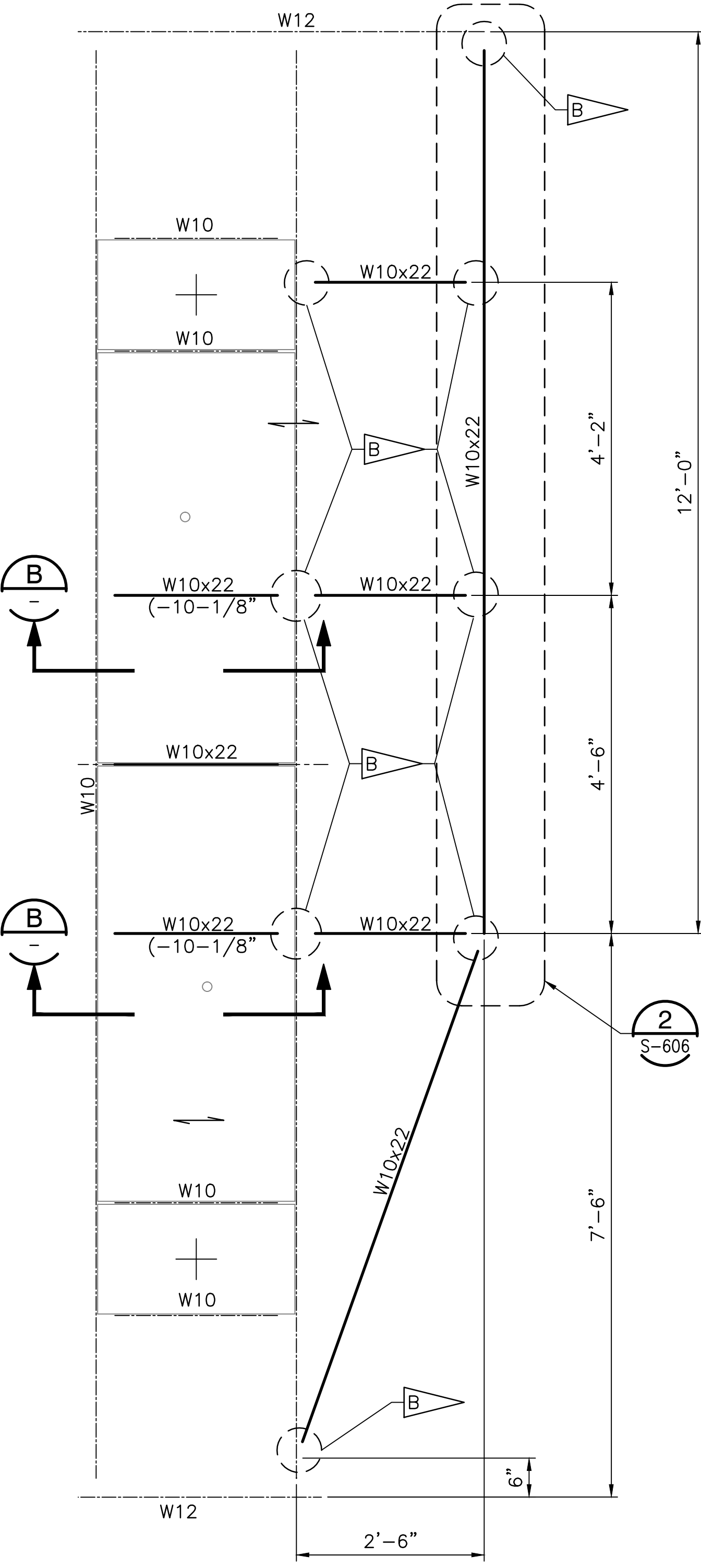
DETAIL
SCALE: 1 1/2"=1'-0"



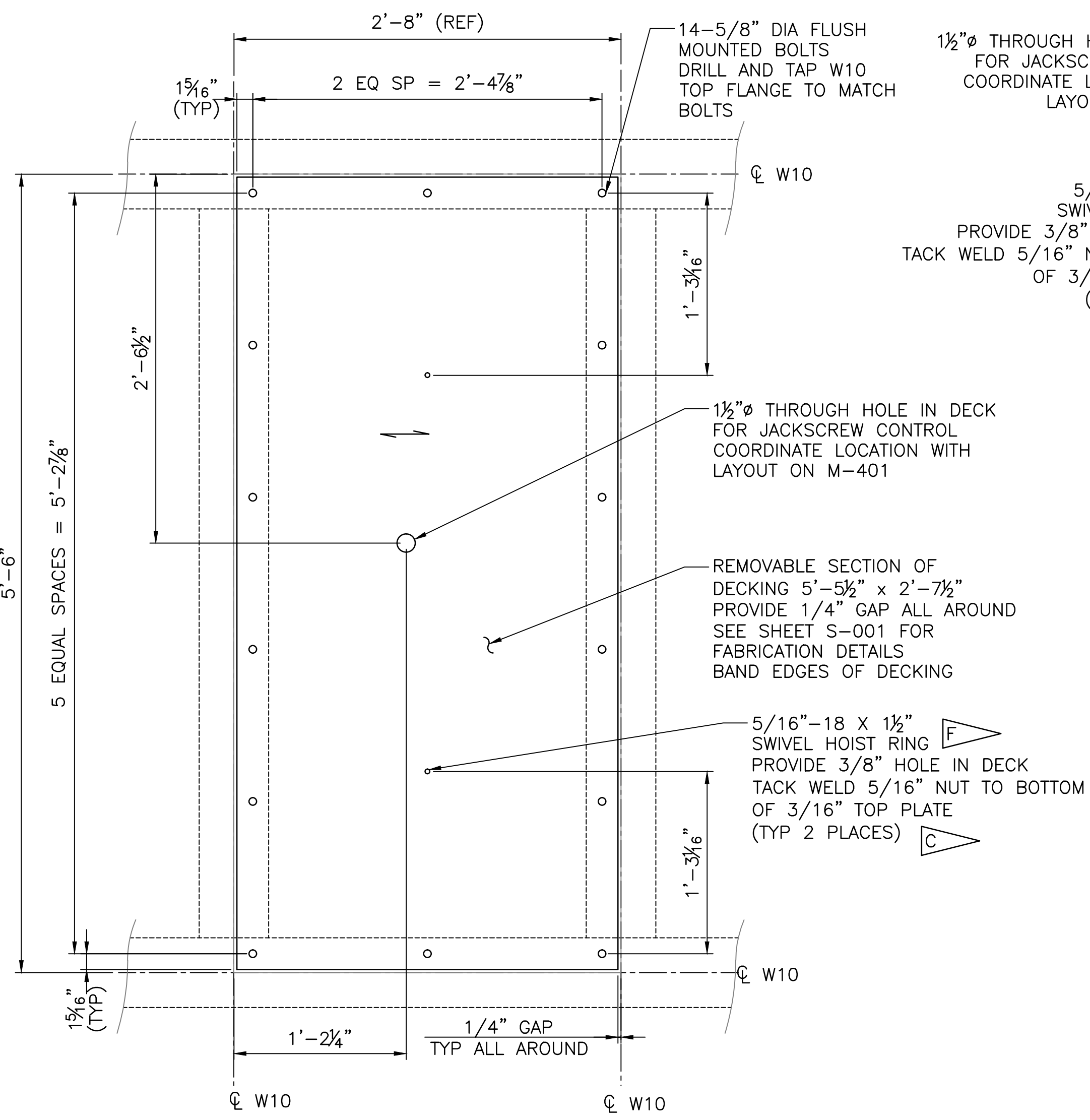
ELEVATOR GUIDE - DETAIL
SCALE: 3"=1'-0"



DETAIL
SCALE: 1 1/2"=1'-0"



ENLARGED PLAN VIEW
SCALE: 3/4"=1'-0"



HATCH DETAIL
SCALE: 1 1/2"=1'-0"

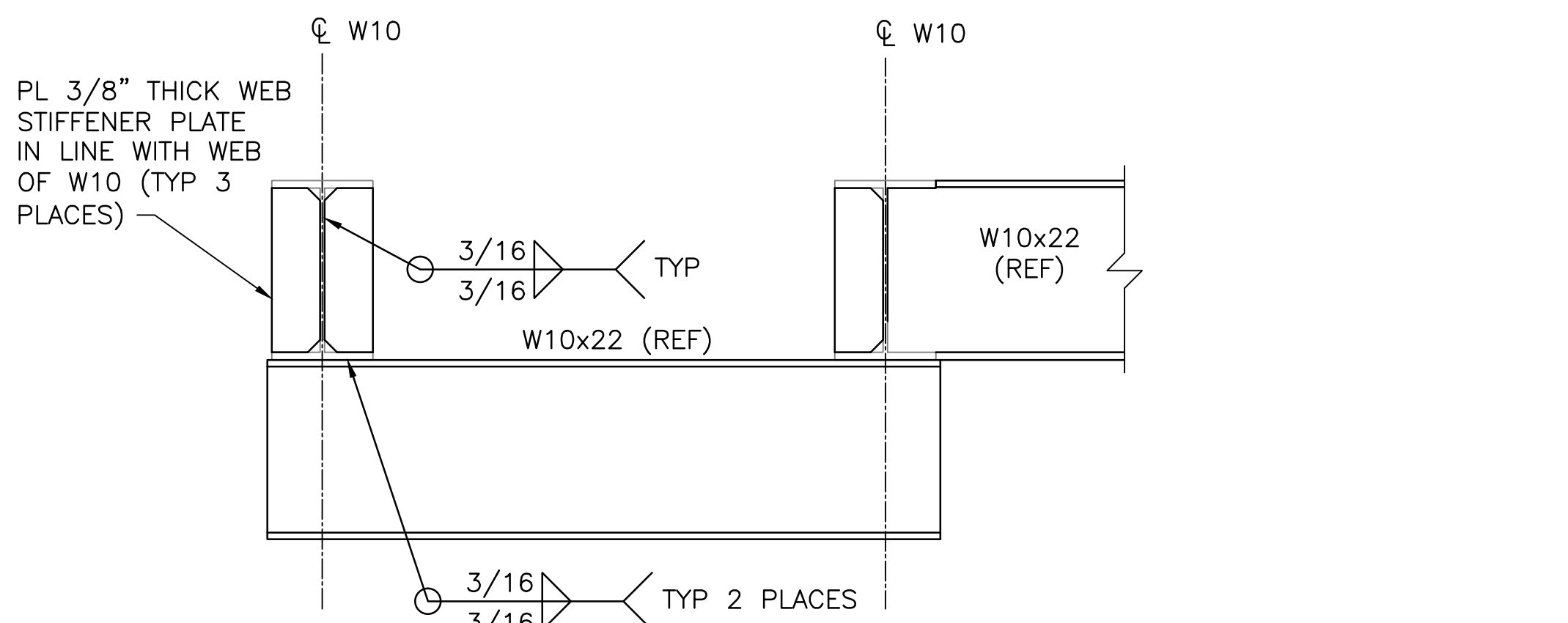
19'6"3'0" 1 2 3
3/4 IN = 1 FT
1 9' 6" 3' 0" 1
1 1/2 IN = 1 FT
0 3' 6" 9" 1'
3 IN = 1 FT
WHEN PRINTED FULL SIZE, THIS SHEET IS 34"x44"
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SPECIFIC NOTES:

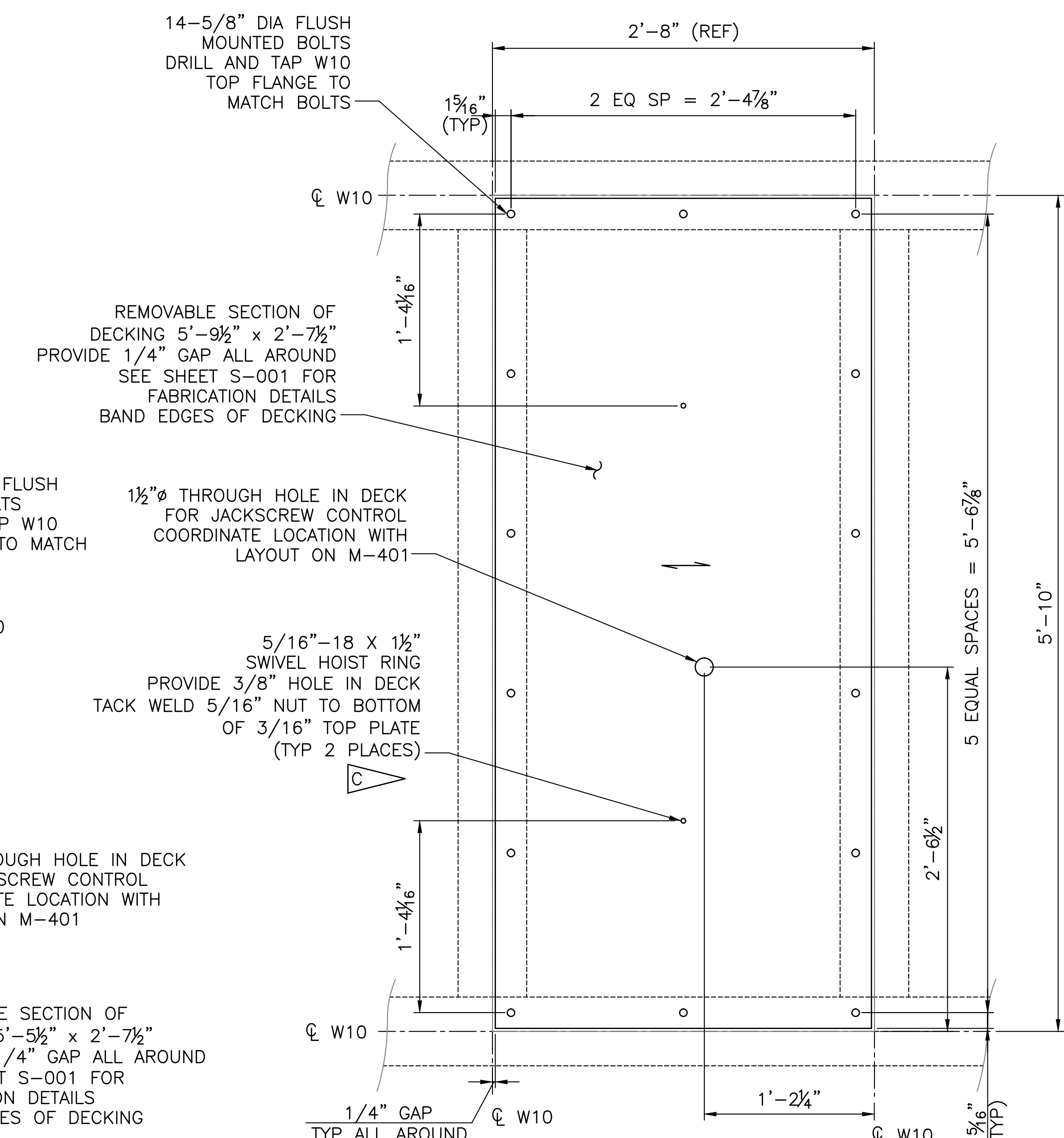
- REMOVE SUPPORT CORBELS PRIOR TO LOWERING AND REMOVING EXISTING ELEVATOR PLATFORMS FOR MODIFICATION.
- CONNECTION TO BE A FULL PENETRATION WELD OF THE TOP AND BOTTOM FLANGES AND THE WEB TO THE INTERSECTING MEMBER.
- PROVIDE 2 SETS OF HOIST RINGS PER TOWER, 4 TOTAL.
- PROVIDE SNAP BLANKS FOR HOLES IN DECK HATCHES.
- PAINT REMOVABLE HATCHES GREEN.
- SWIVEL HOIST RING WITH A 5/16"-18 X 1-1/2" BOLT. WORKING LOAD LIMIT OF 800 LBS AND PROOF TESTED TO A 2-1/2 TIMES THE WORKING LOAD LIMIT. BOLT SHALL BE GRADE 8 ALLOY WITH A SOCKET HEAD CAP SCREW TO MEET ASTM A574 WITH UNC THREADS. HOIST RING SHALL HAVE AN INNER RADIUS OF 0.46 INCHES AND A DIAMETER OF 0.34 INCHES. OVERALL SHACKLE HEIGHT SHALL BE 2.72 INCHES AND AN OVERALL WIDTH OF 1.87 INCHES.
- 1/2"-13 THREADED GRADE 5 STEEL T-HANDLE BOLT. BOLT SHALL HAVE AN OVERALL LENGTH OF 3-3/4" WITH A THREAD LENGTH OF 2-1/2". HANDLE LENGTH SHALL BE 2" LONG AND 1/2" DIAMETER.

LEGEND:

SPAN DIRECTION OF INVERTED 1.5B GAUGE METAL DECK WITH 3/16" THICK STEEL PLATE ATTACHED TO METAL DECK PER THE SDI FABRICATION REQUIREMENTS. PROVIDE 1-3/8" HOLE THRU TOP OF DECK FOR FASTENER INSTALLATION. INSTALL 1/2" DIA-13 (A307/A325 HDG) THRU BOLT WITH HEAVY DUTY LOCKING HEX NUTS. ONLY 2 BOLTS PER 24" WIDE DECK PANEL AT EACH BEAM ARE REQUIRED. PROVIDE SNAP BLANKS TO CLOSE HOLES IN TOP OF DECK. EXTEND DECKING TO EDGE OF PERIMETER BEAM FLANGES. SEE A-SHEETS FOR LIMITS OF DECKING.



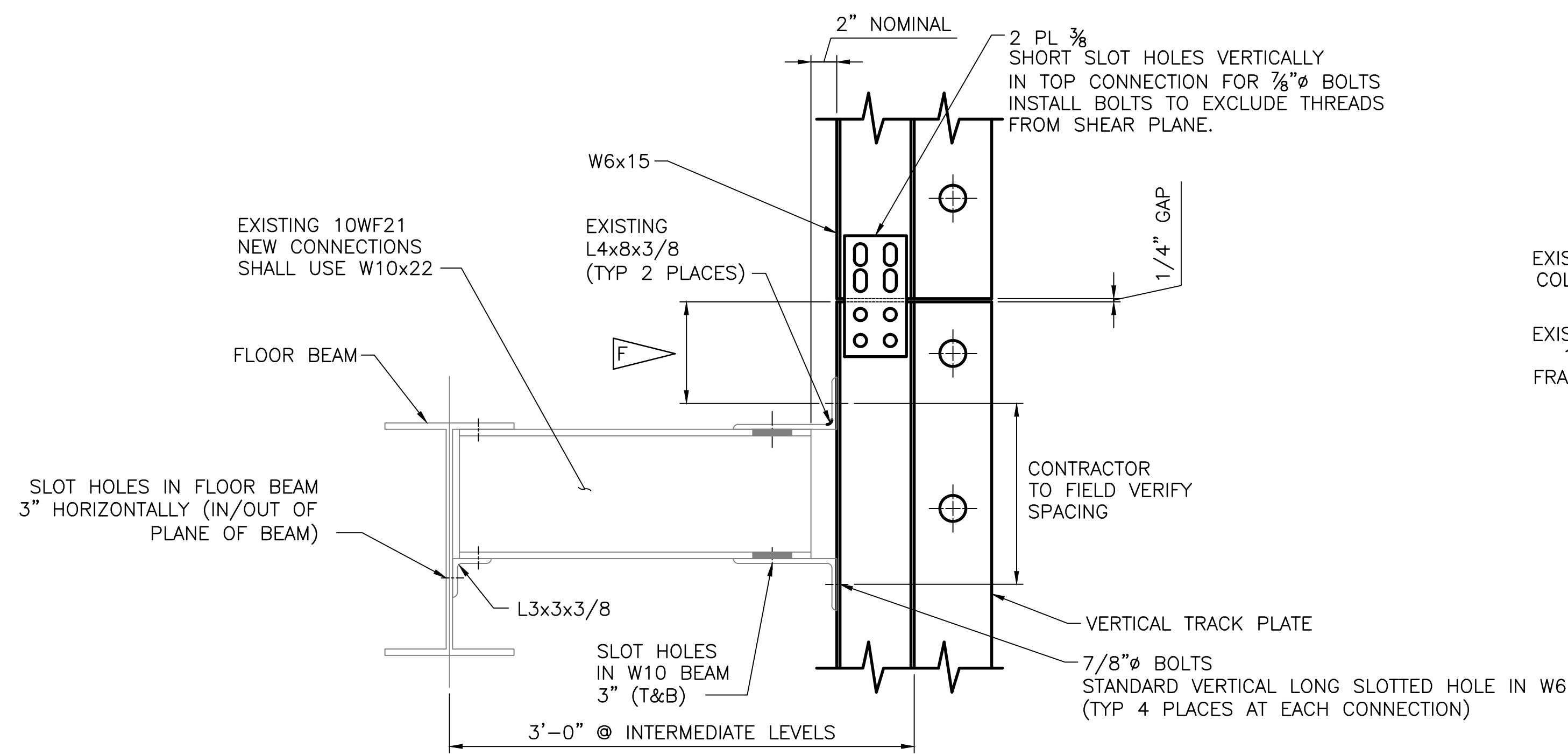
SECTION
SCALE: 1 1/2"=1'-0"



HATCH DETAIL
SCALE: 1 1/2"=1'-0"

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
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| NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | | | | |
| LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS -- ELEVATOR LANDINGS ELEVATOR LANDING DETAILS -2 | | | | |
| SIGNATURES | | DATE | | |
| DRAWN: JOSEPH HAUER | | 08-20-2013 | | |
| CHECKED: BONNIE HAMMERSTEN | | 08-20-2013 | | |
| SUBMITTED ARCHIVING OF RECORD | | 08-20-2013 | | |
| ST OF LICENSURE: FL | | 174624 | | |
| APPROVED: | | JOHN KEROSMAR | | |
| MIKE HARTNETT | | FILE NO. 302-6058-043 | | |
| PROJ. NO. PCN 99000.5 | | SIZE DWG. NO. E 79K39665 | | |
| SHEET 16 OF | | REV | | |

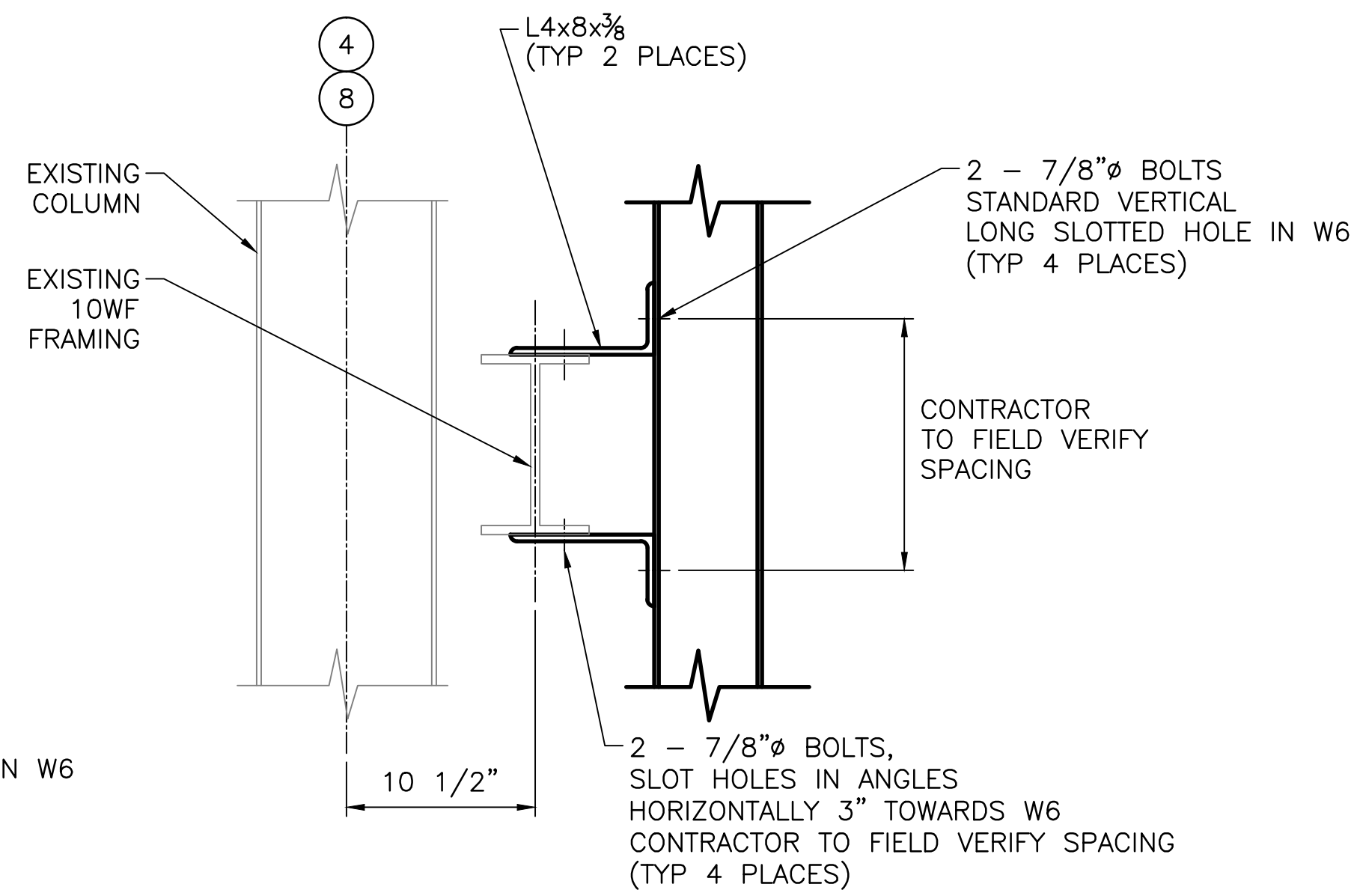
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NOTE: CONNECTIONS EXIST BETWEEN FLOOR LEVELS 9 AND 36. NEW CONNECTIONS SHALL BE PROVIDED AT FLOOR LEVELS 7 AND 8.

ELEVATOR HANGER - INTERMEDIATE CONNECTION DETAIL
FOR COLUMNS WHERE FLOOR FRAMING EXISTS

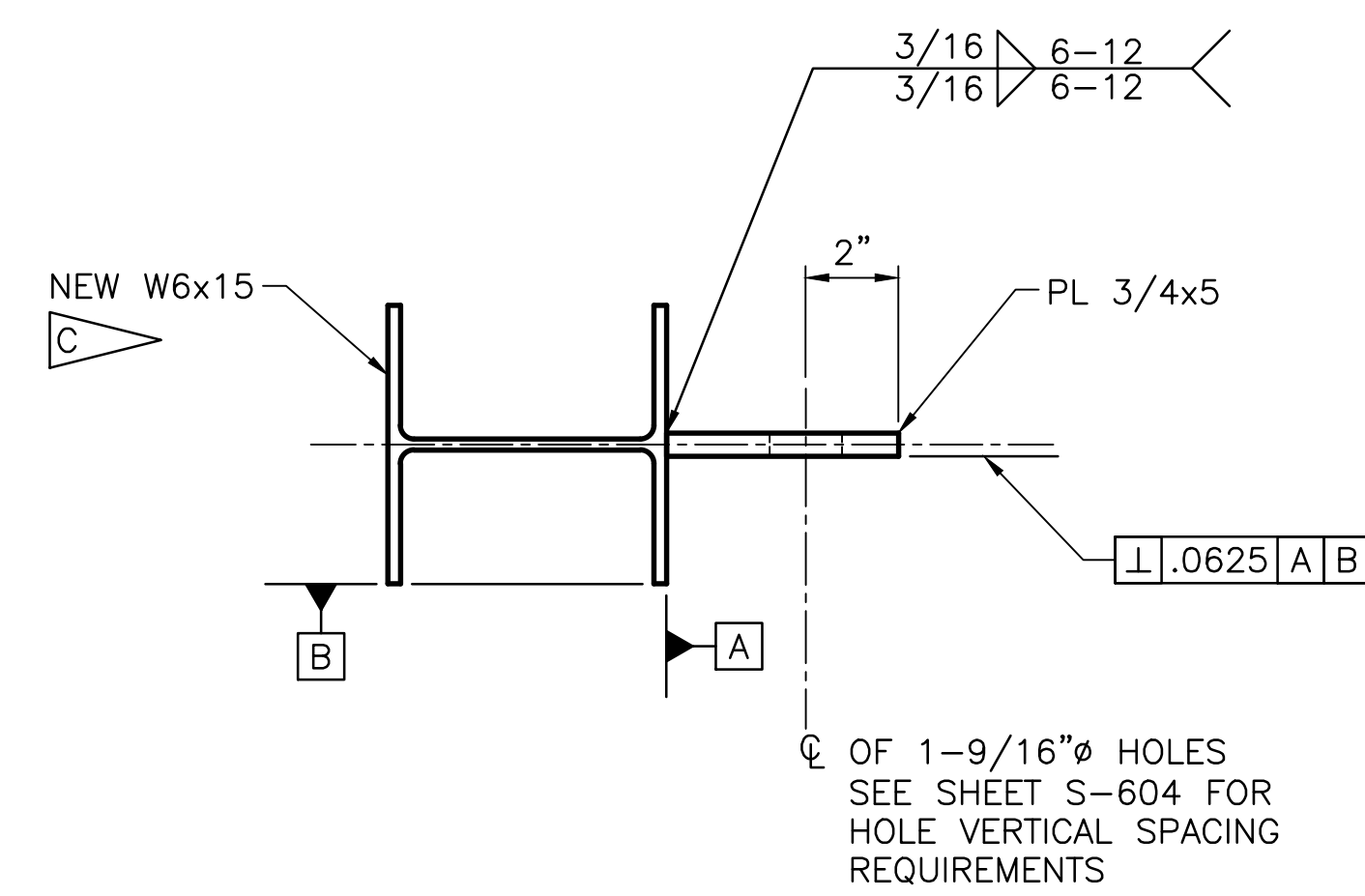
SCALE: 1-1/2"=1'-0"



NOTE: CONNECTIONS EXIST BETWEEN FLOOR LEVELS 9 AND 36 ALONG COLUMN LINES 4 AND 8. VERTICAL TRACK PLATE NOT SHOWN FOR CLARITY.

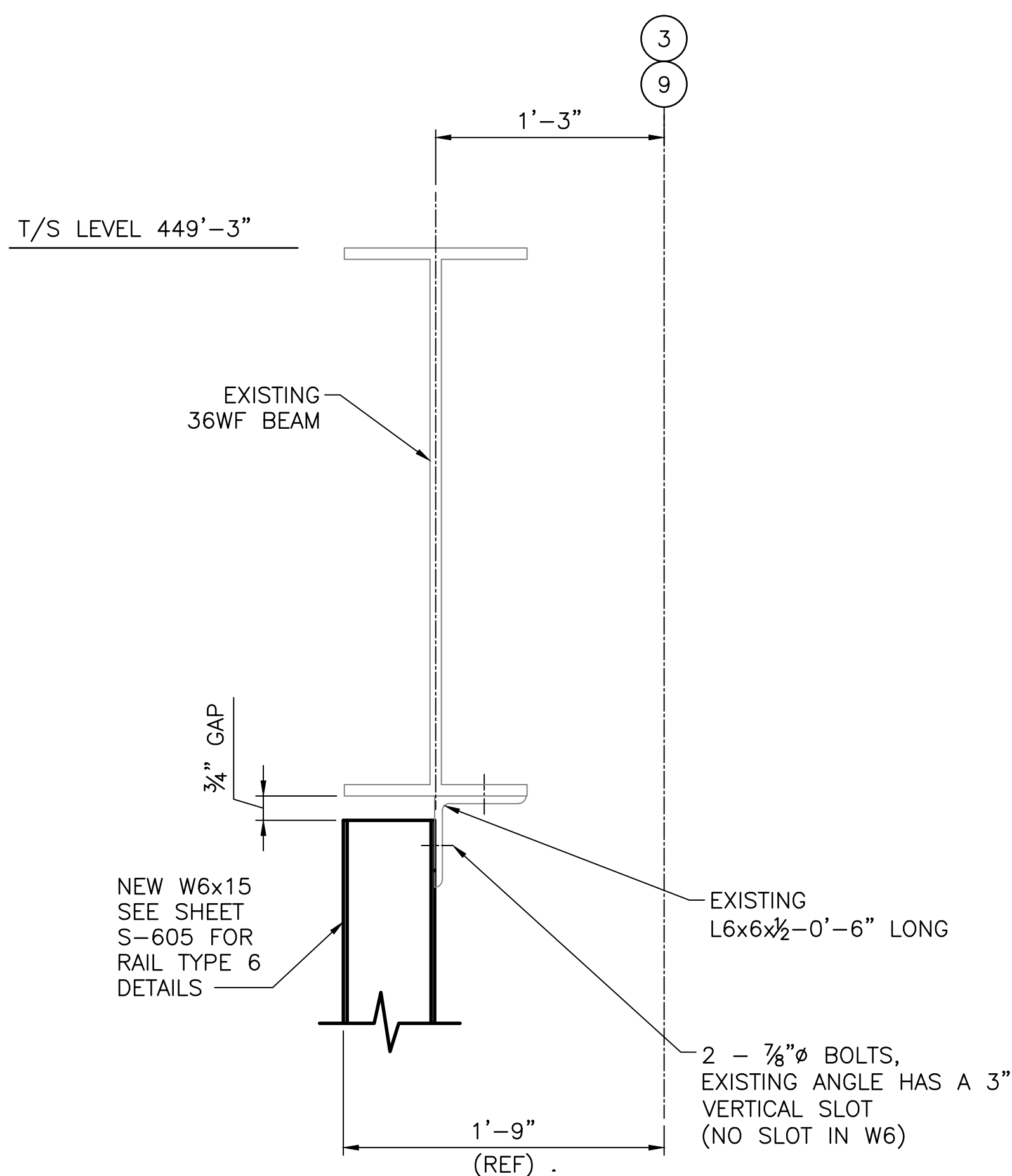
ELEVATOR HANGER - INTERMEDIATE CONNECTION DETAIL
FOR COLUMNS WHERE FLOOR FRAMING DOES NOT EXIST

SCALE: 1-1/2"=1'-0"



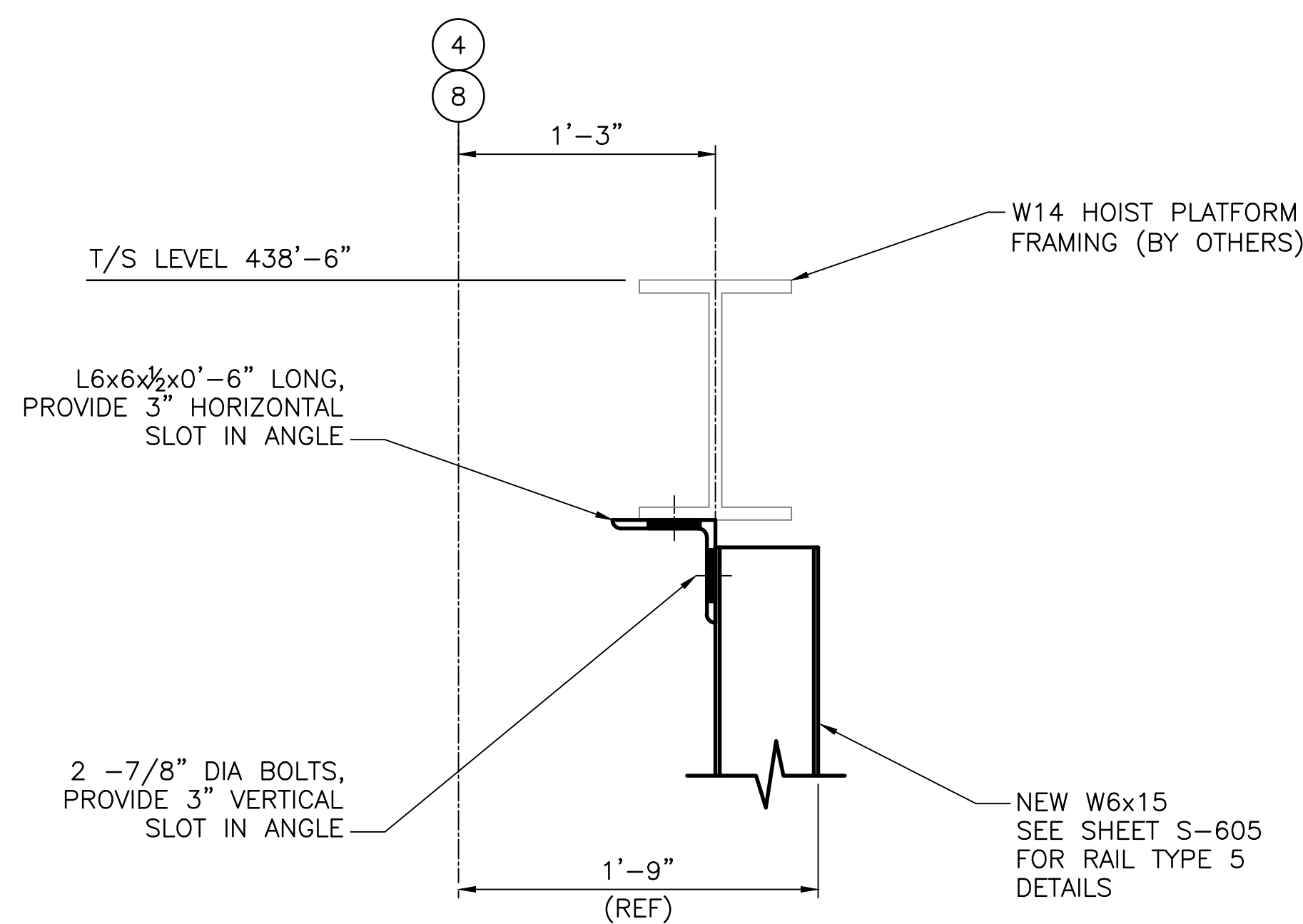
DETAIL

SCALE: 3"=1'-0"



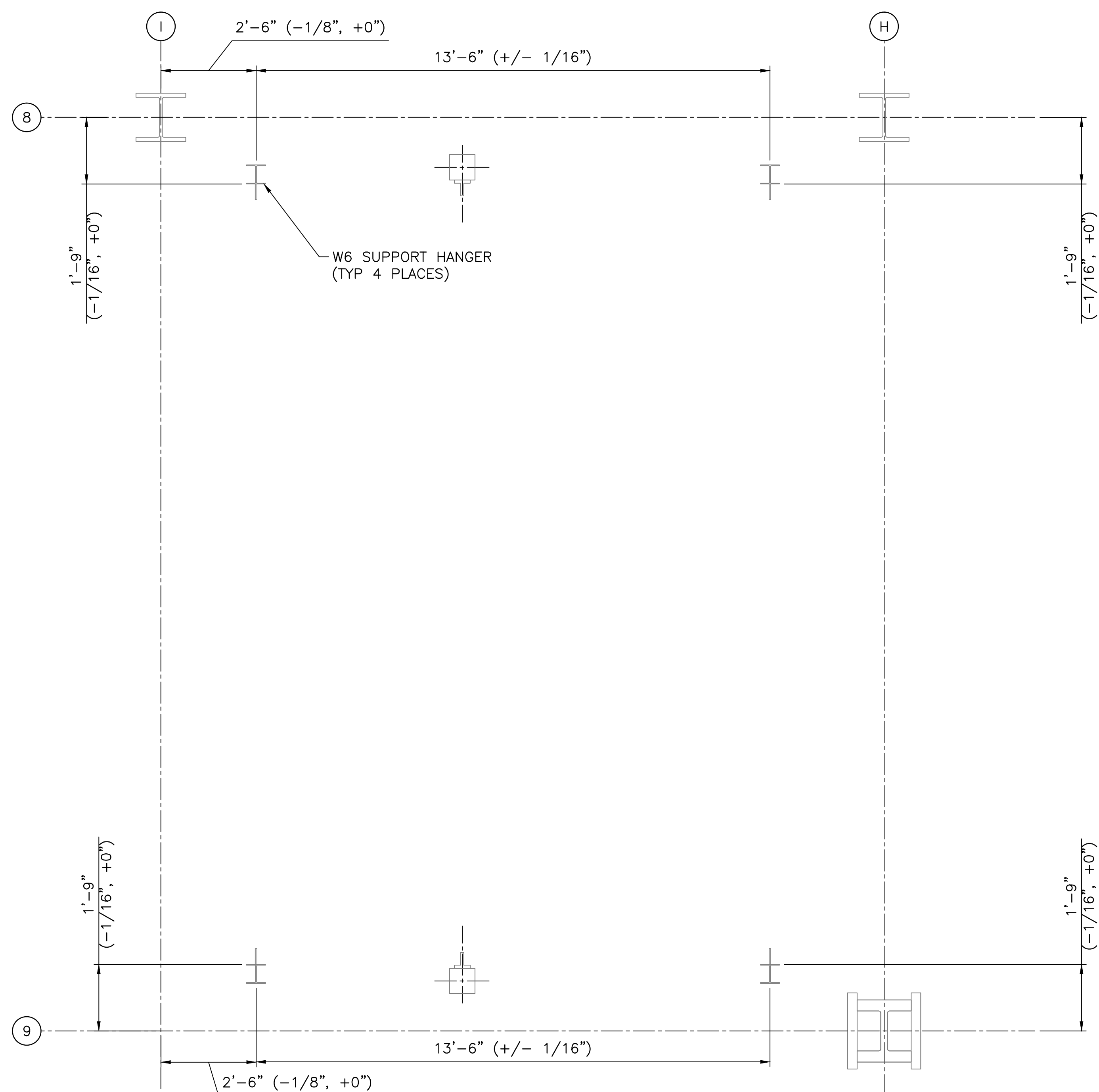
ELEVATOR HANGER - TOP CONNECTION
DETAIL FOR COLUMN LINES 3 AND 9

SCALE: 1-1/2"=1'-0"



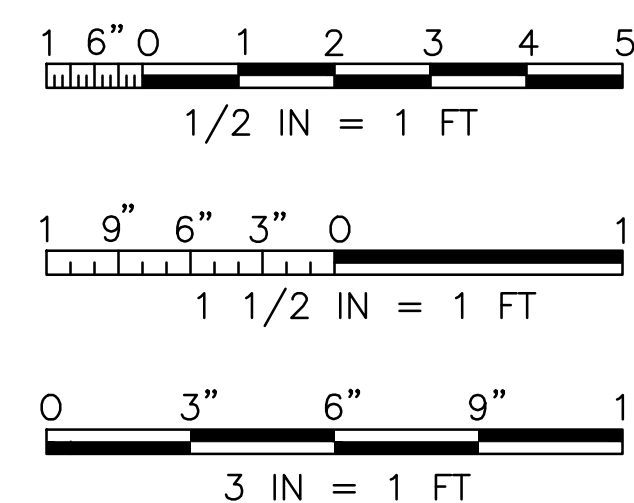
ELEVATOR HANGER - TOP CONNECTION
DETAIL FOR COLUMN LINES 4 AND 8

SCALE: 1-1/2"=1'-0"



(TOWER E SHOWN)
(TOWER F OPPOSITE HAND)

W/O INSTALLATION





WHEN PRINTED FULL SIZE, THIS SHEET IS 34"X44"
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FILED UNDER THE DRAWING NUMBER

SPECIFIC NOTES:

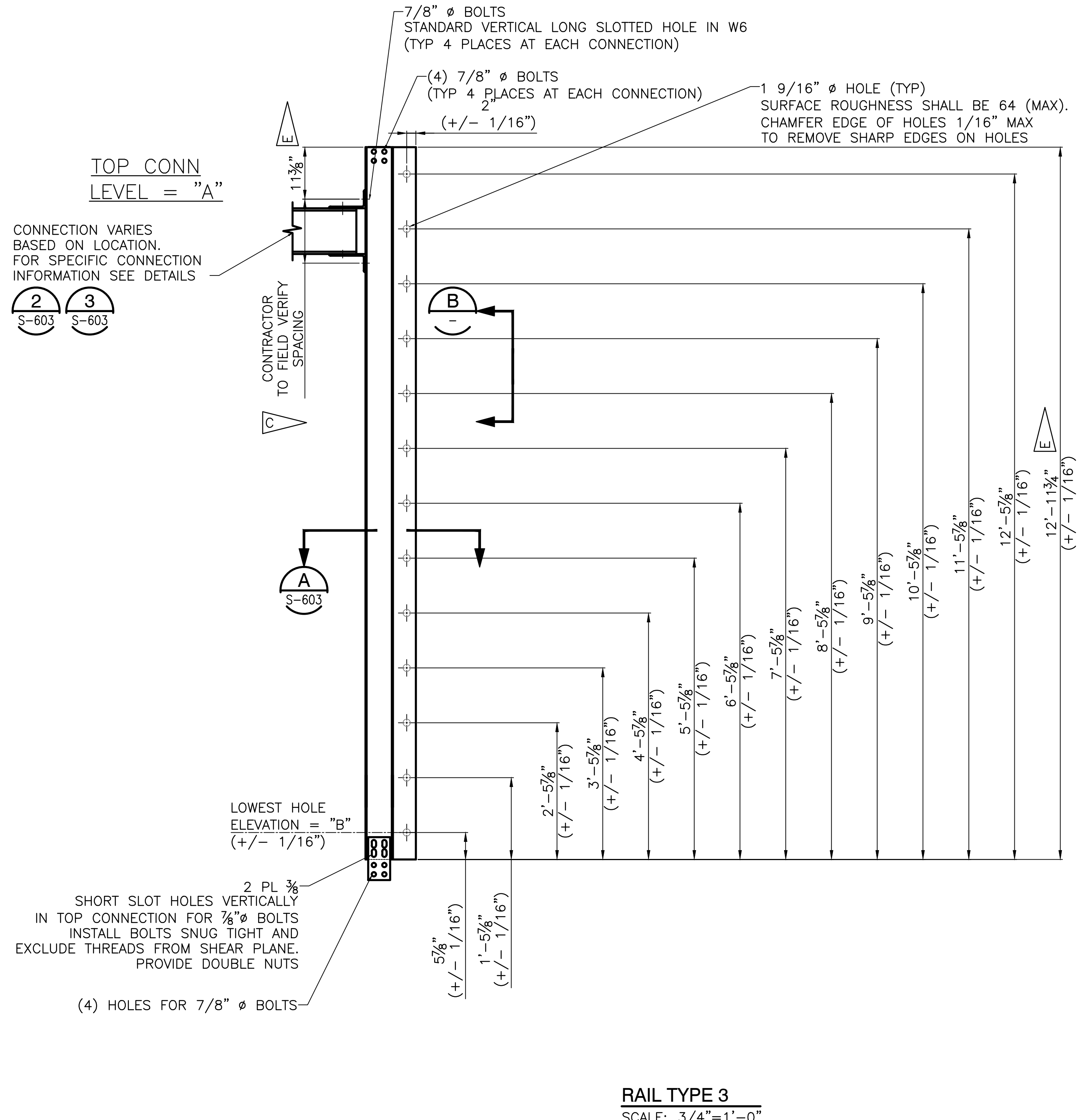
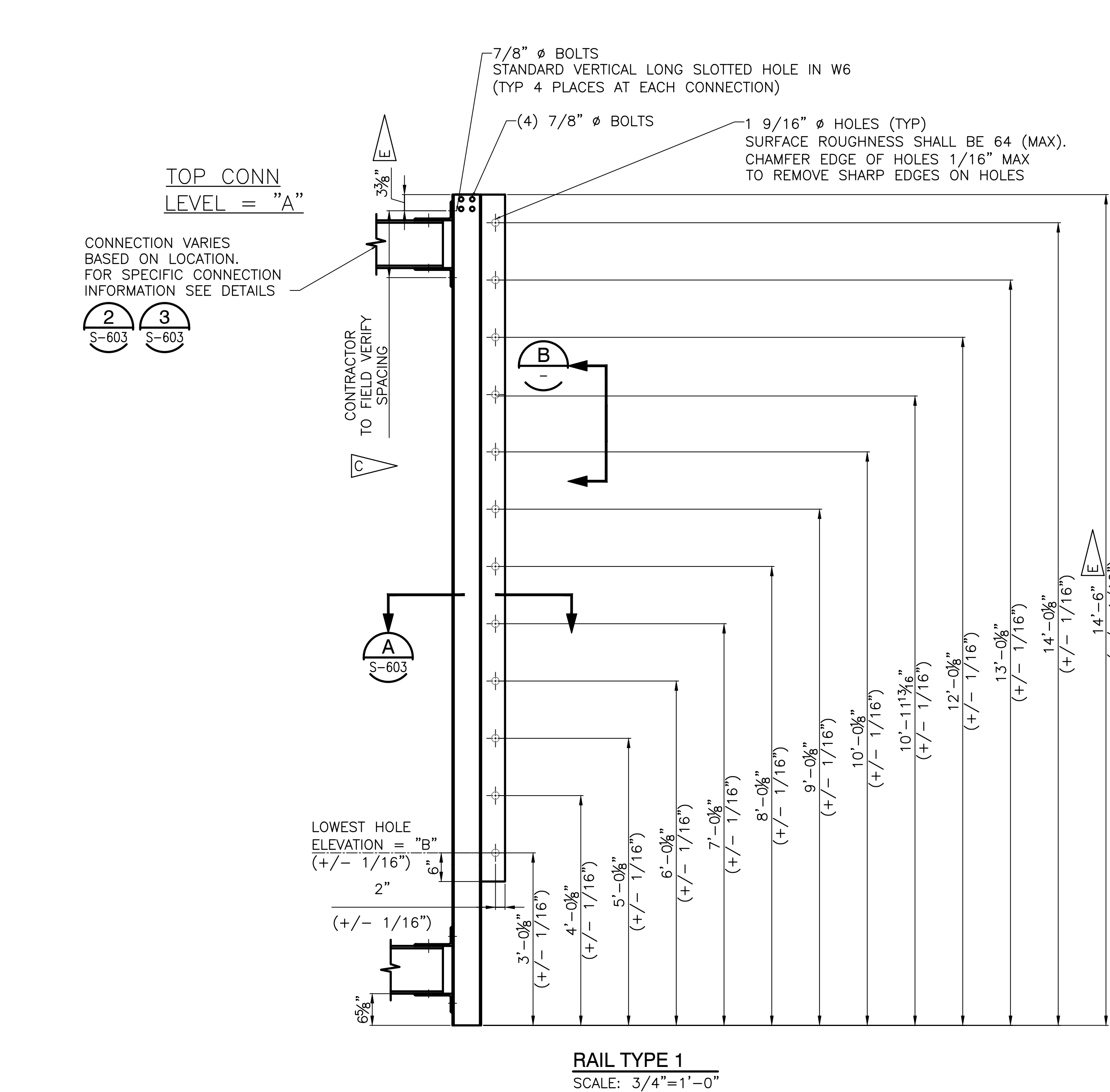
- A. ALL NEW PLATE STEEL IS A572 GR 50 UNLESS OTHERWISE NOTED.
- B. ALL NEW STRUCTURAL SHAPES ARE CARBON STEEL A992 GR 50 UNLESS OTHERWISE NOTED.
- C. USE EXISTING 6WF15 TO VAB CONNECTIONS. REMOVE EXISTING 6WF15, NOT TO BE REUSED.
- D. ALL FRAMING MEMBERS SHALL BE STANDARD AISC CONNECTIONS DESIGNED TO THE 13TH EDITION AISC STEEL MANUAL REQUIREMENTS. THE FOLLOWING MINIMUM ASD DESIGN LOADS SHALL BE MET FOR:
W6s AXIAL: 14 KIPS
- E. ALL CONNECTIONS WITH SLOTTED HOLES SHALL USE 3/8" THICK (MIN) PLATE WASHER PER SECTION J3.20F OF THE 13TH EDITION AISC STEEL MANUAL REQUIREMENTS.

-  DIMENSION VARIES BASED ON RAIL TYPE BEING USED. SEE SHEET S-604 FOR SPECIFIC RAIL TYPE INFORMATION.

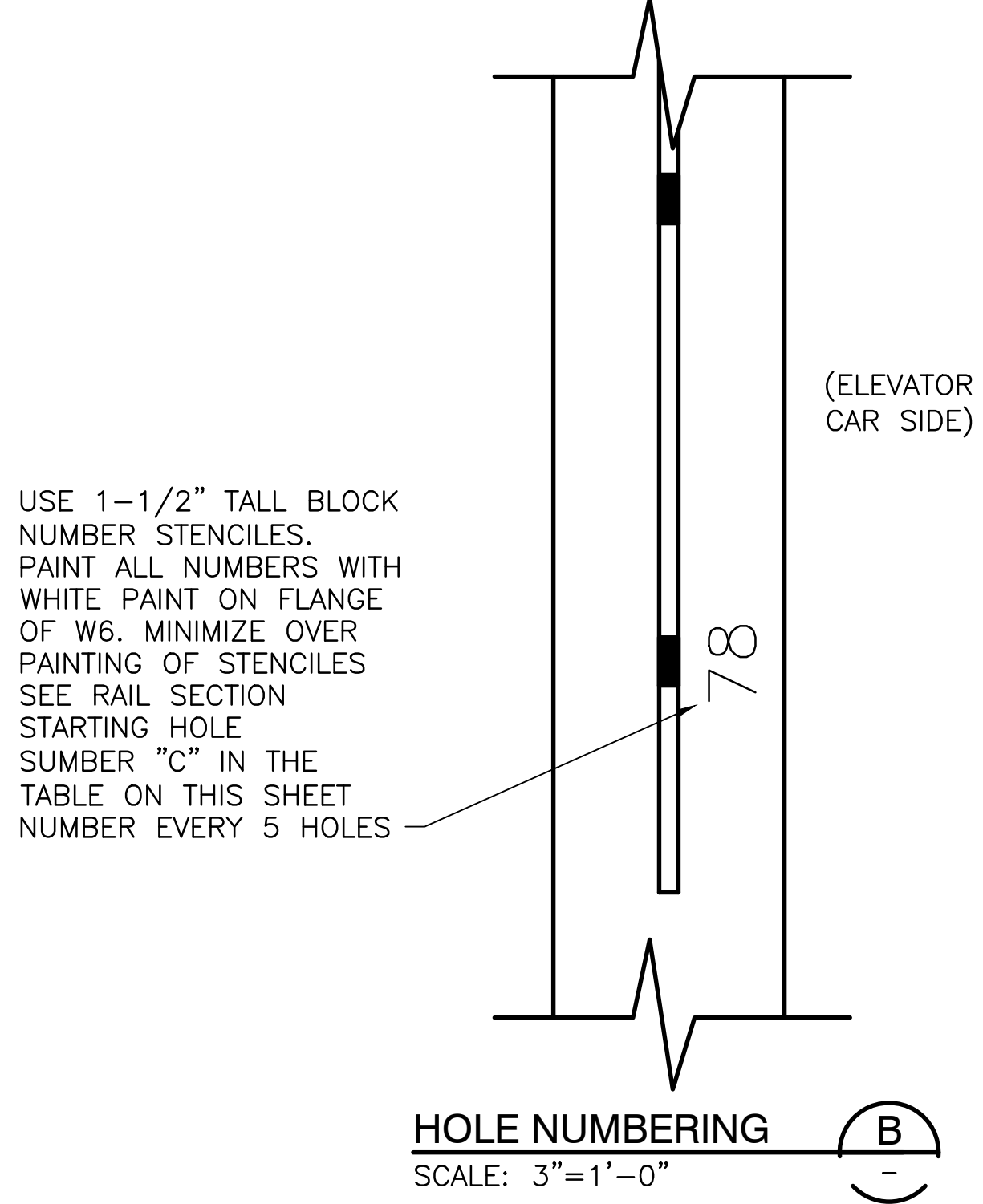
- CONTRACTOR TO PERFORM A SCAN OF ALL EXISTING RAILS PRIOR TO REMOVAL AND SUBMIT FOR APPROVAL. CONTRACTOR SHALL NOT PROCEED WITH REMOVAL OF THE RAILS UNTIL THE SCAN RESULTS ARE APPROVED. THE CONTRACTOR SHALL RE-SCAN THE RAILS AFTER THE RAIL INSTALLATION TO VERIFY THE RAILS MEET THE TOLERANCES ON S-600, S-604 AND S-605. ALL RAILS OUT OF TOLERANCE SHALL BE REINSTALLED AND RESCANED AT THIS POINT. CONTRACTOR SHALL NOT PROCEED UNTIL ACCEPTED BY THE GOVERNMENT. CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF THE PLATFORMS UNTIL FINAL ACCEPTANCE OF THE RAIL INSTALLATION IS ACCEPTED BY THE GOVERNMENT. RAILS MUST BE INSTALLED TO MATCH THE TOLERANCES PROVIDED IN DETAIL 3, THIS SHEET, AND IN THE PLAN VIEW, THIS SHEET.

| | | | | | |
|---|------|-------------|--|------------------------|----------|
| SYM | ZONE | DESCRIPTION | | DATE | APPROVAL |
| REVISIONS | | | | | |
| SIGNATURES | | DATE |  <p>Reynolds, Smith and Hills, Inc. 115 Alma Blvd, Suite 101 Meritt Island, Florida 32853-4101 (321) 453-0212 / (407) 453-0223 FAX www.rsandh.com</p> | | |
| DRAWN: JOSEPH HAUER | | 08-20-2013 | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | | |
| CHECKED: STEVE MORO | | 08-20-2013 | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING | | |
| SUBMITTED: ARCHIEVO OF RECORD  RICHARD PRUSS | | 08-20-2013 | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS ELEVATOR LANDING DETAILS - 3 | | |
| ST OF LICENSE: FL LICENSE NO: 74624 | | | FILE NO: 302-6058-043 | DWG. NO: E 79K39665 | REV |
| APPROVED: JOHN KEROSMAR | | | PROD. NO. PCN 99000.5 SHEET 17 OF | | |
| MIKE HARTNETT | | | | | |

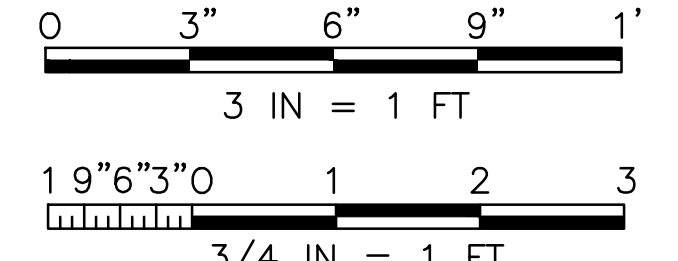
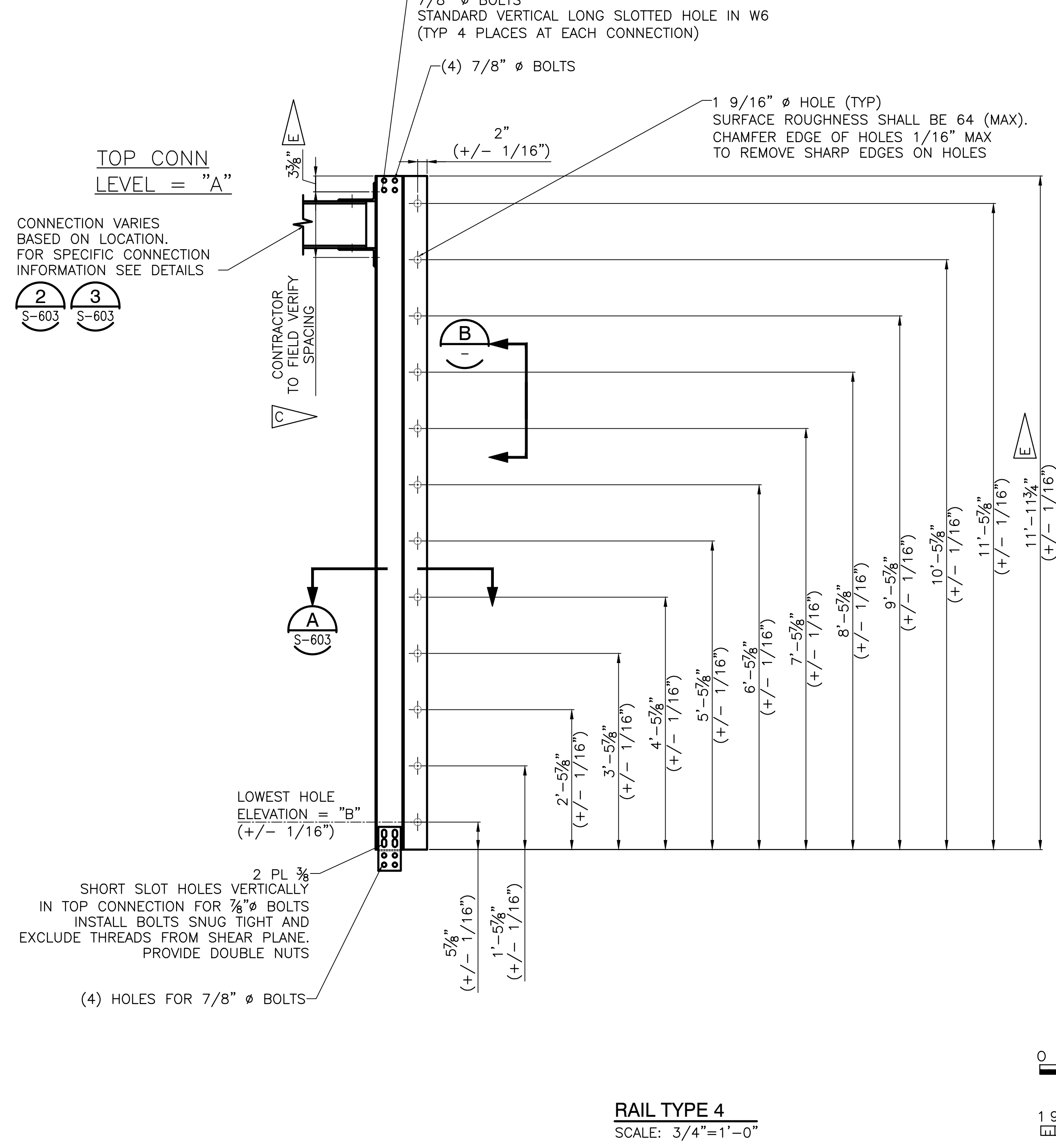
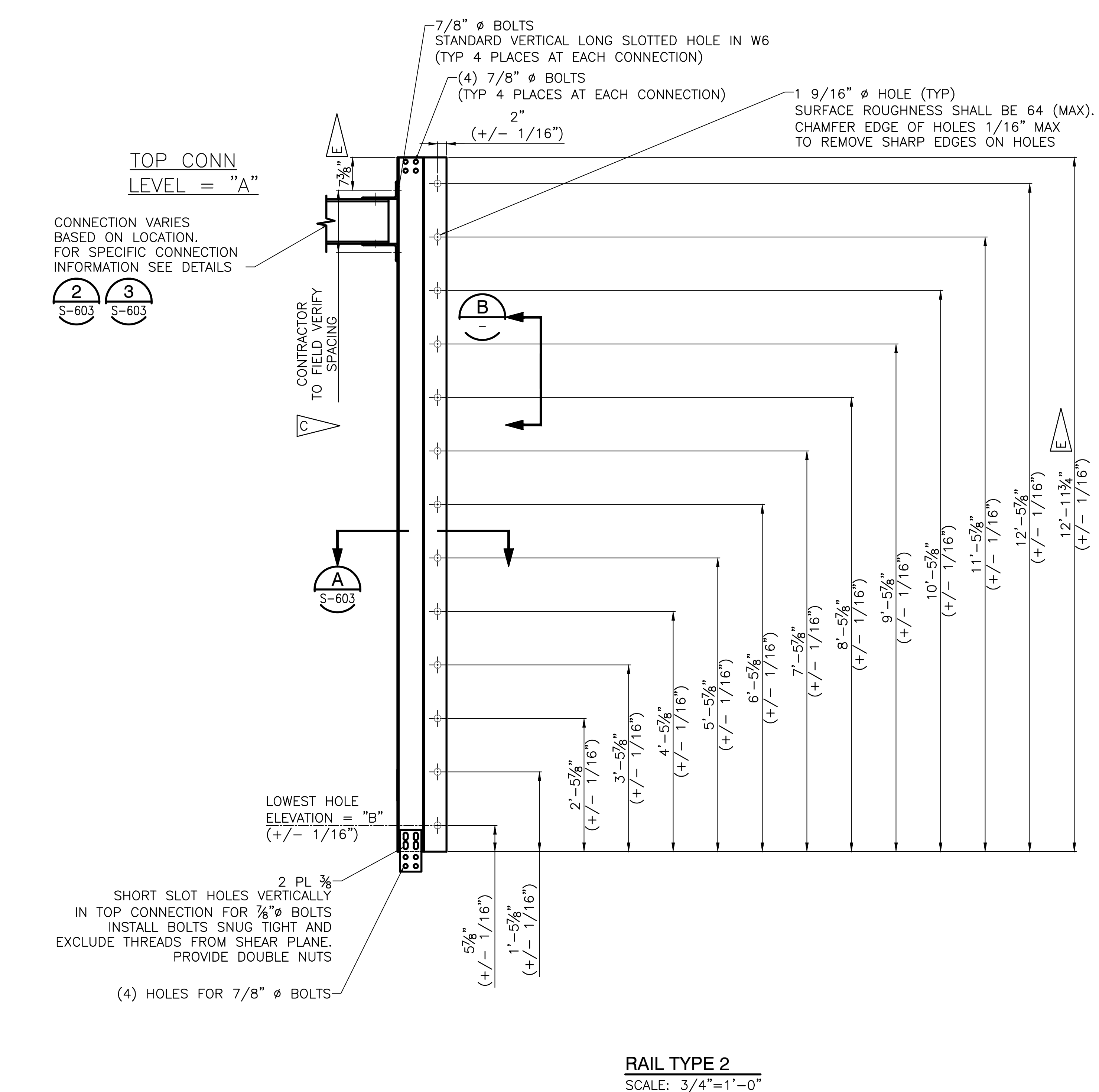
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- D. ALL FRAMING MEMBERS SHALL BE STANDARD AISC CONNECTIONS DESIGNED TO THE 13th EDITION AISC STEEL MANUAL REQUIREMENTS. THE FOLLOWING MINIMUM ASD DESIGN LOADS SHALL BE MET FOR:
W6s AXIAL: 14 KIPS
- E. CONTRACTOR TO FIELD VERIFY CONNECTION SPACING PRIOR TO CUTTING W6 SHAPES.
- F. SEE SHEET S-603 FOR W6 INSTALLATION TOLERANCES.



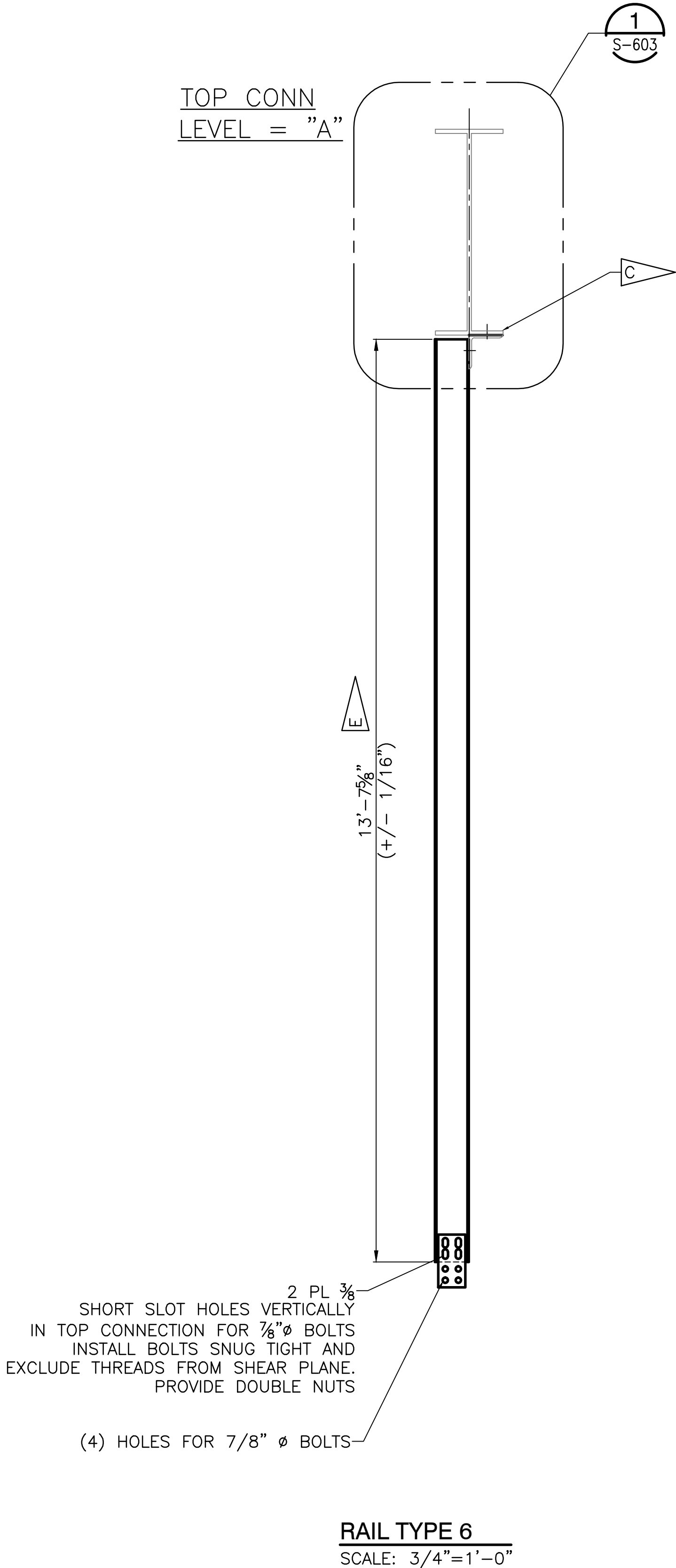
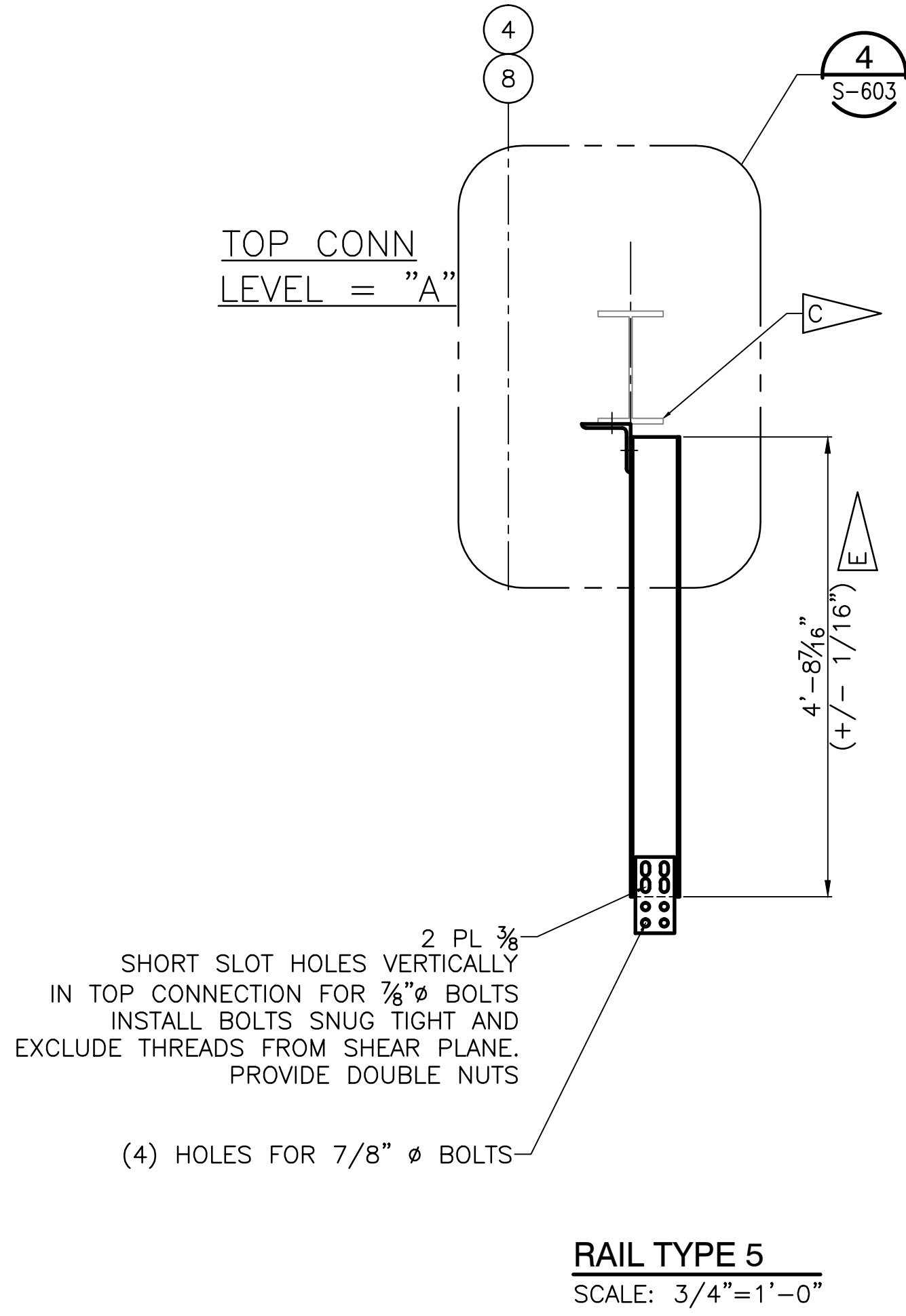
| TOP CONN LEVEL "A" | COLUMN LINE | RAIL TYPE | LOWEST HOLE ELEVATION (INSTALLED) "B" | RAIL SECTION STARTING HOLE NUMBER "C" |
|-----------------------|----------------|-----------|--|--|
| 8 | 3, 4, 8, AND 9 | 1 | 79'-0" | 78 |
| 9 | 3, 4, 8, AND 9 | 2 | 91'-0" | 90 |
| 10 | 3, 4, 8, AND 9 | 3 | 104'-0" | 103 |
| 11 | 3, 4, 8, AND 9 | 4 | 117'-0" | 116 |
| 12 | 3, 4, 8, AND 9 | 2 | 129'-0" | 128 |
| 13 | 3, 4, 8, AND 9 | 3 | 142'-0" | 141 |
| 14 | 3, 4, 8, AND 9 | 4 | 155'-0" | 154 |
| 15 | 3, 4, 8, AND 9 | 2 | 167'-0" | 166 |
| 16 | 3, 4, 8, AND 9 | 3 | 180'-0" | 179 |
| 17 | 3, 4, 8, AND 9 | 4 | 193'-0" | 192 |
| 18 | 3, 4, 8, AND 9 | 2 | 205'-0" | 204 |
| 19 | 3, 4, 8, AND 9 | 3 | 218'-0" | 217 |
| 20 | 3, 4, 8, AND 9 | 4 | 231'-0" | 230 |
| 21 | 3, 4, 8, AND 9 | 2 | 243'-0" | 242 |
| 22 | 3, 4, 8, AND 9 | 3 | 256'-0" | 255 |
| 23 | 3, 4, 8, AND 9 | 4 | 269'-0" | 268 |
| 24 | 3, 4, 8, AND 9 | 2 | 281'-0" | 280 |
| 25 | 3, 4, 8, AND 9 | 3 | 294'-0" | 293 |
| 26 | 3, 4, 8, AND 9 | 4 | 307'-0" | 306 |
| 27 | 3, 4, 8, AND 9 | 2 | 319'-0" | 318 |
| 28 | 3, 4, 8, AND 9 | 3 | 332'-0" | 331 |
| 29 | 3, 4, 8, AND 9 | 4 | 345'-0" | 344 |
| 30 | 3, 4, 8, AND 9 | 2 | 357'-0" | 356 |
| 31 | 3, 4, 8, AND 9 | 3 | 370'-0" | 369 |
| 32 | 3, 4, 8, AND 9 | 4 | 383'-0" | 382 |
| 33 | 3, 4, 8, AND 9 | 2 | 395'-0" | 394 |
| 34 | 3, 4, 8, AND 9 | 3 | 408'-0" | 407 |
| 35 | 3, 4, 8, AND 9 | 4 | 421'-0" | 420 |



S-604

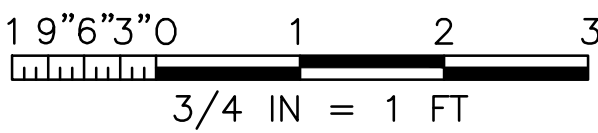
| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|-------------------------------------|---------------|-------------|--|----------|
| REVISIONS | | | | |
| SIGNATURES | | DATE | Reynolds, Smith and Hills, Inc. 115 Alma Blvd, Suite 101 Merritt Island, Florida 32963-4101 (321) 453-0212 (321) 453-0223 FAX www.rsandh.com | |
| DRAWN: JOSEPH HAUER | 08-20-2013 | | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | |
| CHECKED: STEVE MOORE | 08-20-2013 | | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING | |
| SUBMITTED ARCHIVING OF RECORD | 08-20-2013 | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS | |
| <i>Richard Ross</i> RICHARD ROSS | 08-20-2013 | | ELEVATOR LANDING DETAILS -4 | |
| ST OF LICENSE: FL | 74624 | | FILE NO. 302-6058-043 | |
| LICENSE NO: 74624 | JOHN KERCSMAR | | SIZE DWG. NO. 979K39665 | |
| APPROVED: | JOHN KERCSMAR | | REV | |
| MIKE HARTNETT | 08-20-2013 | | PROJ. NO. PCN 99000.5 | |
| SHEET 18 OF | | | | |

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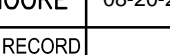
- SPECIFIC NOTES:**
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 - D. ALL FRAMING MEMBERS SHALL BE STANDARD AISC CONNECTIONS DESIGNED TO THE 13th EDITION AISC STEEL MANUAL REQUIREMENTS. THE FOLLOWING MINIMUM ASD DESIGN LOADS SHALL BE MET FOR:
W6s AXIAL: 14 KIPS
 - E. CONTRACTOR TO FIELD VERIFY CONNECTION SPACING PRIOR TO CUTTING W6 SHAPES.
 - F. SEE SHEET S-603 FOR W6 INSTALLATION TOLERANCES.

| TOP CONN LEVEL "A" | COLUMN LINE | RAIL TYPE | LOWEST HOLE ELEVATION (INSTALLED) "B" | RAIL SECTION STARTING HOLE NUMBER "C" |
|--------------------|-------------|-----------|---------------------------------------|---------------------------------------|
| 36 | 4 AND 8 | 5 | - | - |
| 36 | 3 AND 9 | 6 | - | - |



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S-605

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL | | |
|---|--|--|--|----------|--|--|
| REVISIONS | | | | | | |
| SIGNATURES | | DATE | REYNOLDS, Smith and Hills, Inc. 115 Alma Blvd, Suite 101 Merritt Island, Florida 32953-4101 (321) 453-0212 (321) 453-0223 FAX www.rsandh.com | | | |
| DRAWN: JOSEPH HAUER | 08-20-2013 | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | | | | |
| CHECKED: STEVE MOORE | 08-20-2013 | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING | | | | |
| SUBMITTED ARCHIVING OF RECORD  RICHARD FROST | 08-20-2013 | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS -- ELEVATOR LANDINGS ELEVATOR LANDING DETAILS --5 | | | | |
| ST OF LICENSURE: FL LICENSE NO: 7H6 24 | FILE NO. 302-6058-043 SIZE E TOWNSHIP NO. 79K39665 | | | | | |
| APPROVED: | PROJ. NO. PCN 99000.5 SHEET 19 OF | | | | | |
| JOHN KEROSMAR | | | | | | |
| MIKE HARTNETT | | | | | | |

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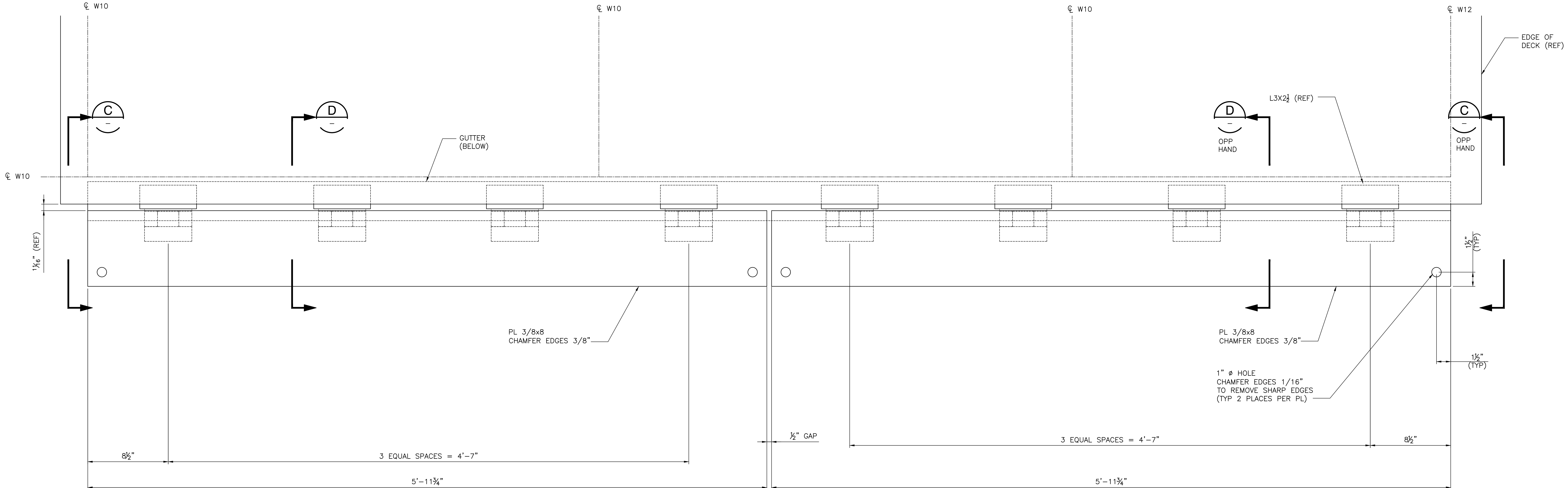
E

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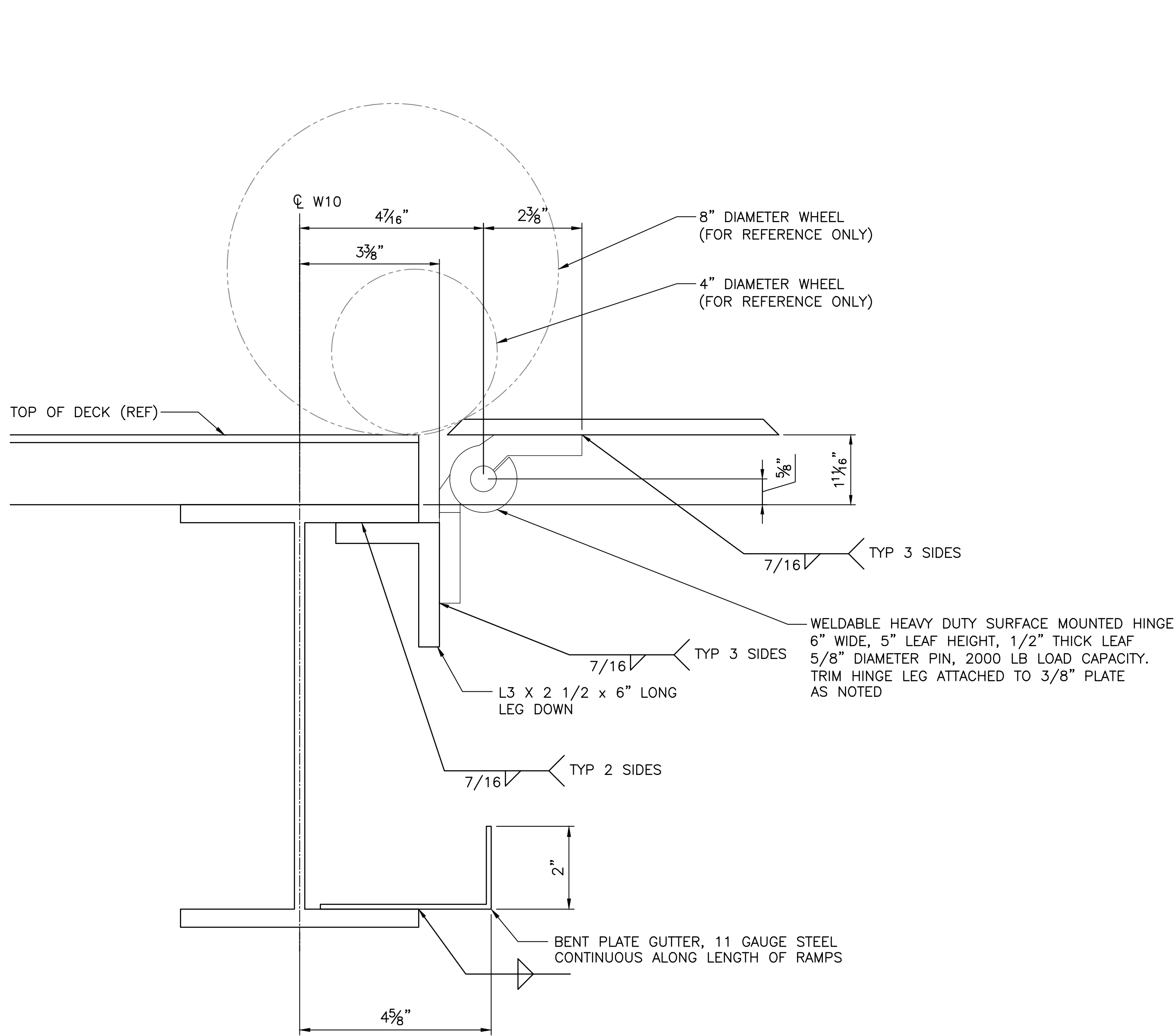
A



NOTE: VIEW ROTATED FOR CLARITY AND SCALING PURPOSES.

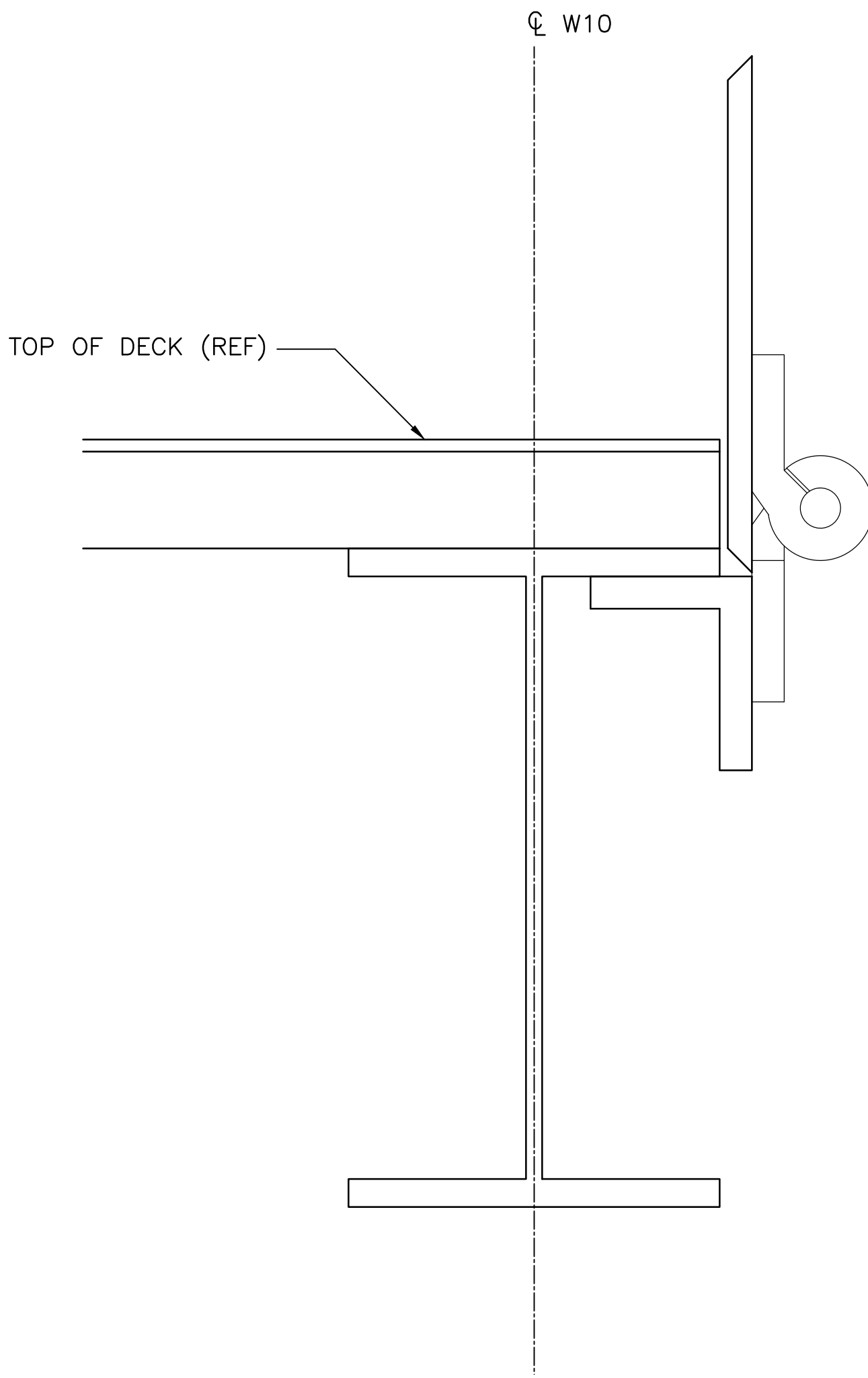
RAMP DETAIL
SCALE: 3"=1'-0"

2
S-606

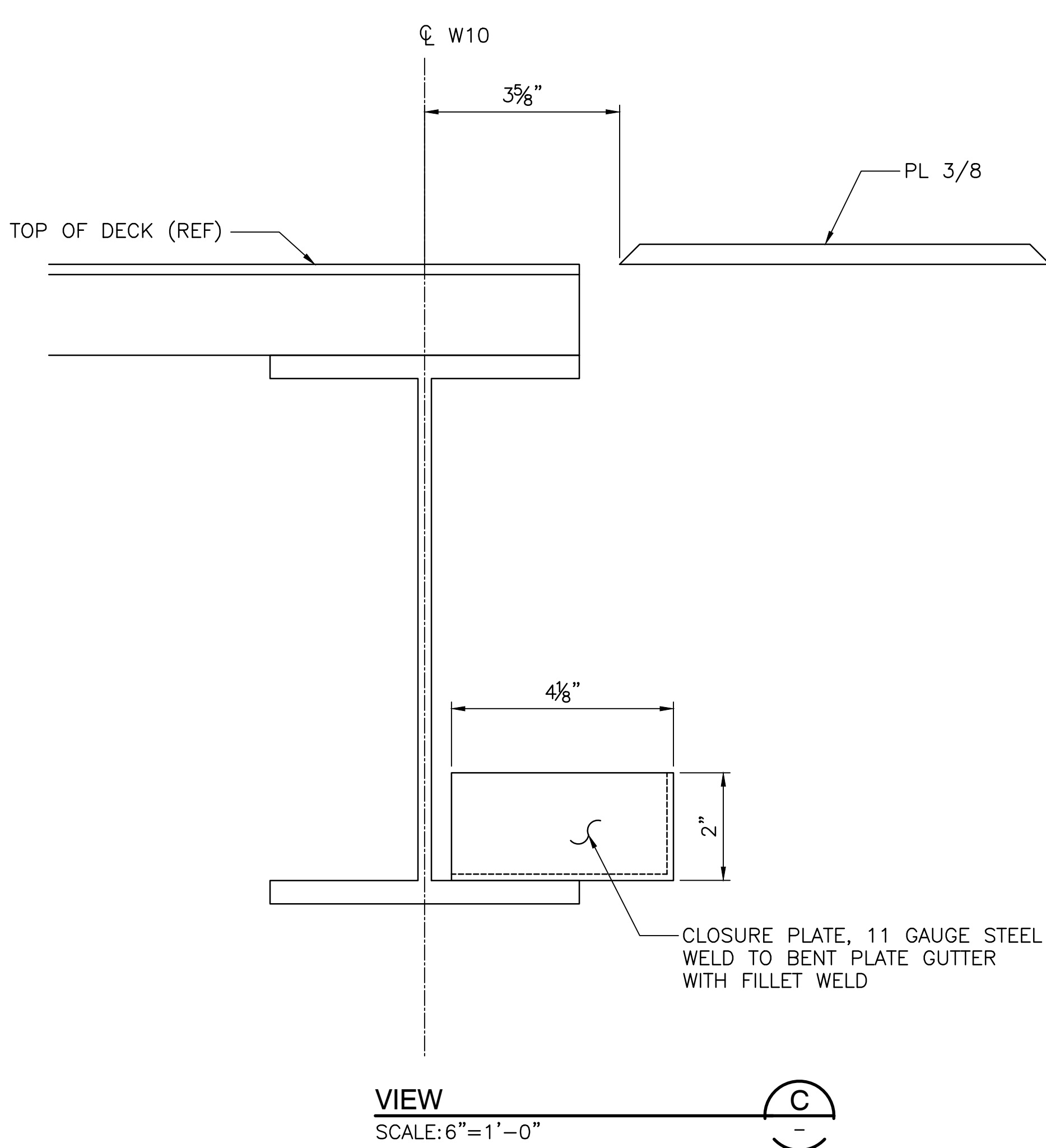


SECTION
SCALE: 6"=1'-0"

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1

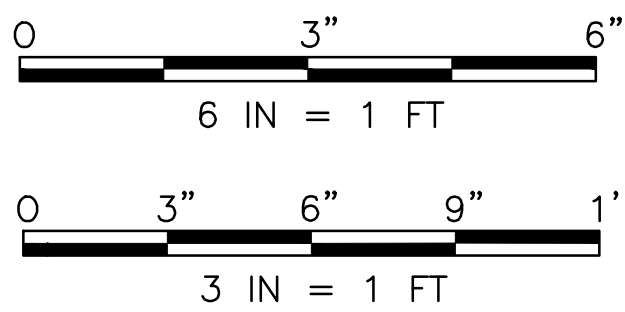


TYPICAL DETAIL - RAMP IN STORED POSITION
SCALE: 6"=1'-0"



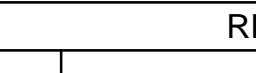

VIEW
SCALE: 6"=1'-0"

C
1



WHEN PRINTED FULL SIZE, THIS SHEET IS 34"x44"
THIS COMPUTER DRAWING WAS
CREATED IN AUTOCAD AND
FILED UNDER THE DRAWING NUMBER

S-606

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|--|------|--|--|----------|
| REVISIONS | | | | |
| | | <div><div></div><div>Reynolds, Smith and Hills, Inc. 115 Alma Blvd. Suite 101 Merritt Island, Florida 32953-4101 (321) 455-0212 (321) 453-0223 FAX www.rsandh.com</div></div> | | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | |
| DRAWN: JOSEPH HAUER | | 08-20-2013 | JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | |
| CHECKED: STEVE MOORE | | 08-20-2013 | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING | |
| SUBMITTED ARCHIVING OF RECORD  | | 08-20-2013 | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS -- ELEVATOR LANDINGS ELEVATOR LANDING DETAILS --6 | |
| ST OF LICENSURE: FL LICENSE NO: 746 24 | | | | |
| APPROVED: | | | | |
| JOHN KERESMAR | | FILE NO. | SIZE | DWG. NO. |
| | | 302-6058-043 | E | 79K39665 |
| MIKE HARTNETT | | PROJ. NO. | PCN | 99000.5 |
| | | | SHEET | 20 OF |

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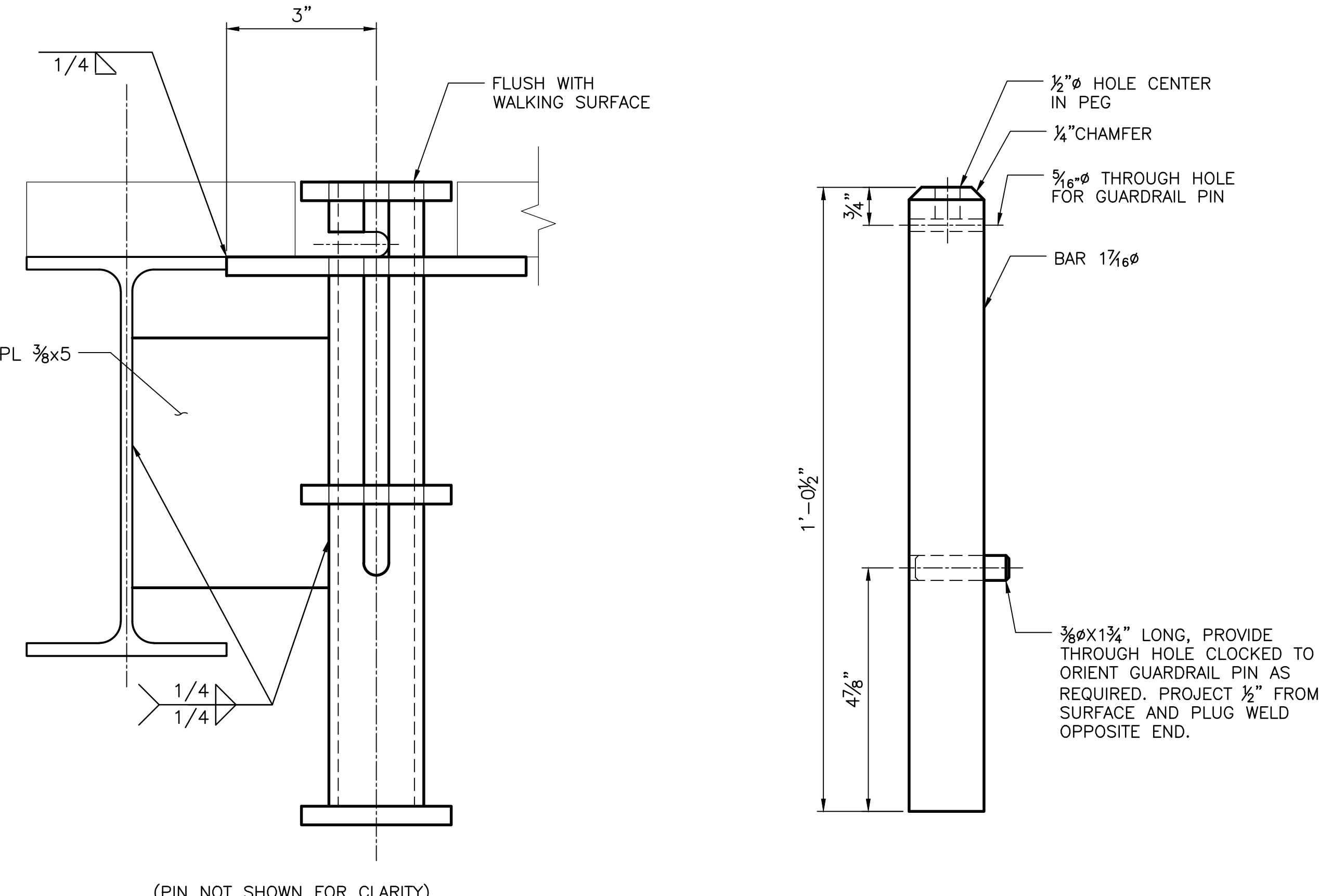
E

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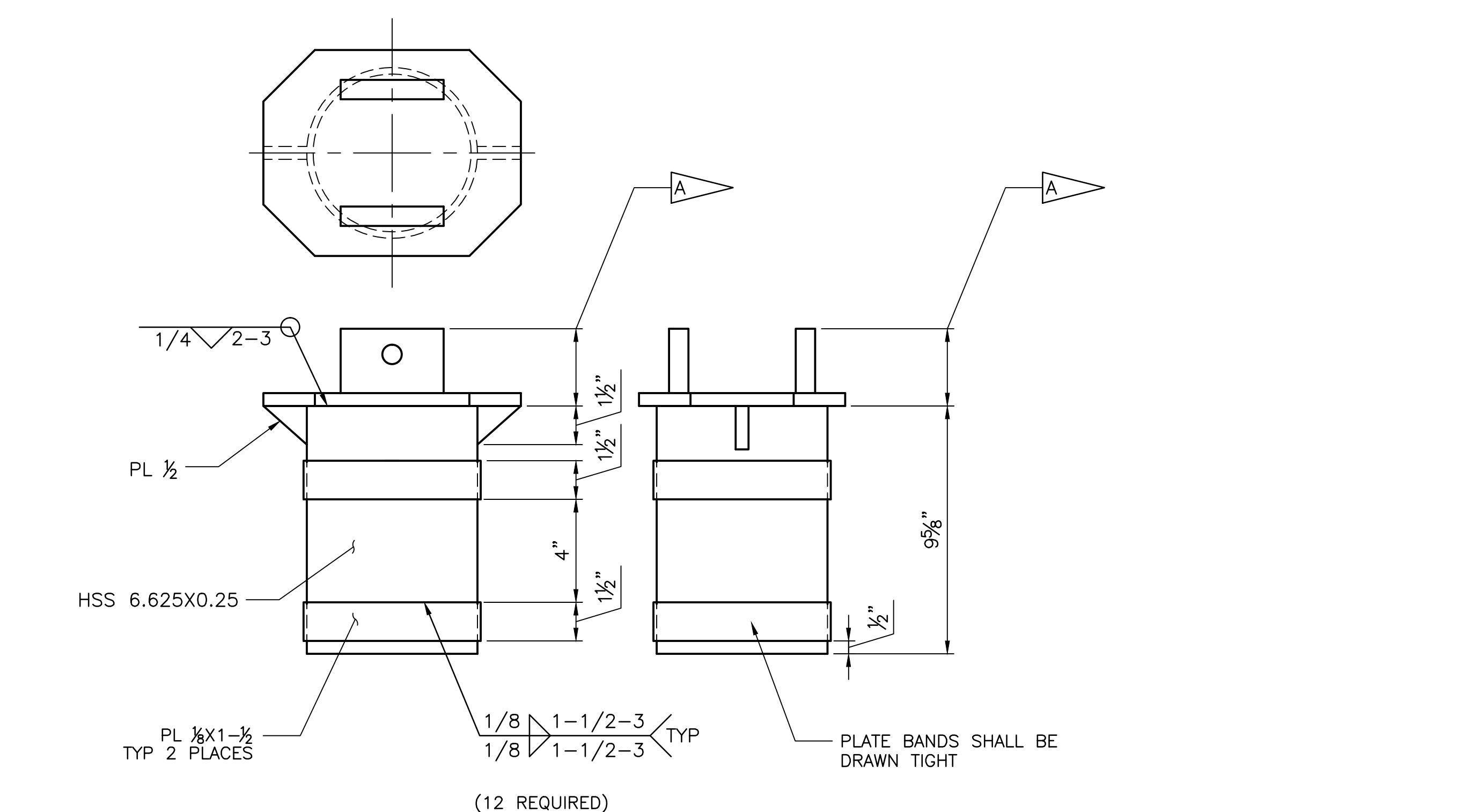
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(PIN NOT SHOWN FOR CLARITY)

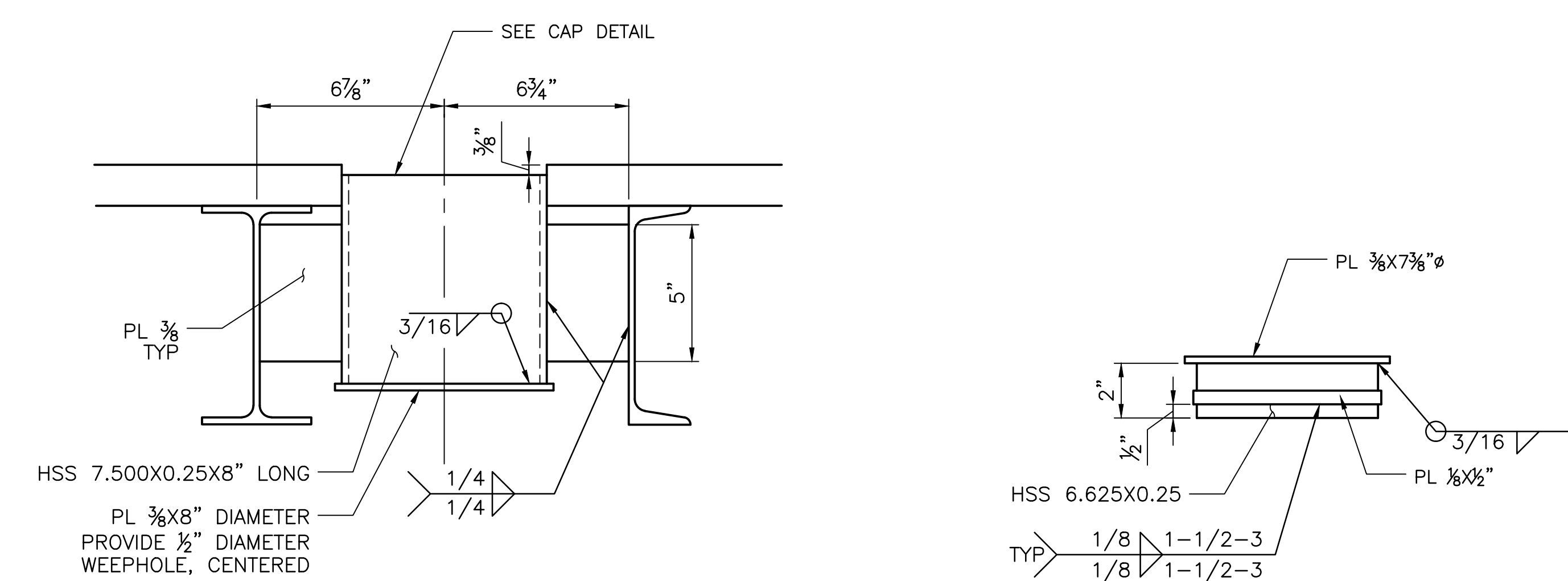
SECTION (B)
SCALE: 6"=1'-0"

DETAIL (1)
SCALE: 6"=1'-0"



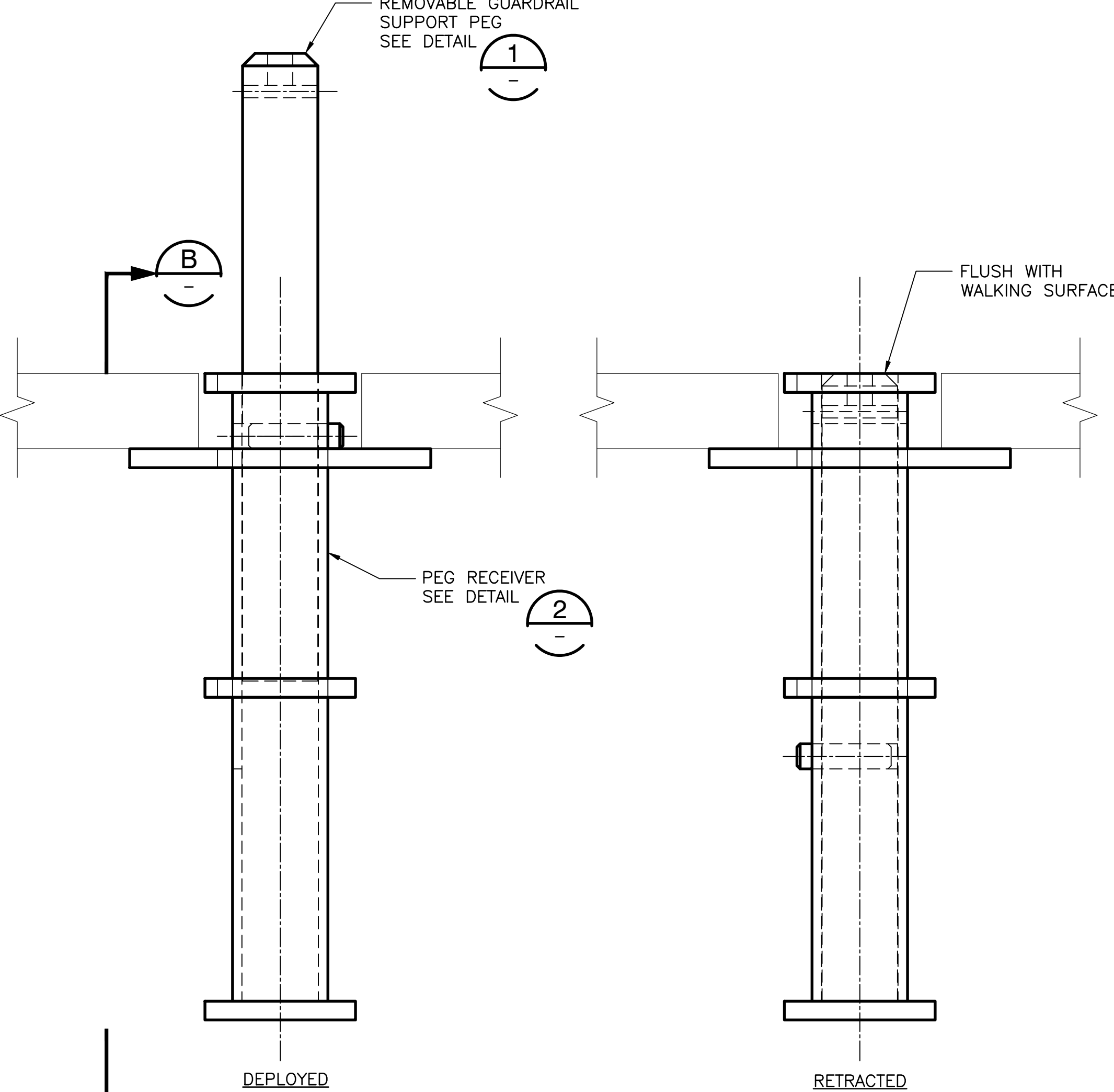
(12 REQUIRED)

FALL ARREST POST BASE
SCALE: 3"=1'-0"

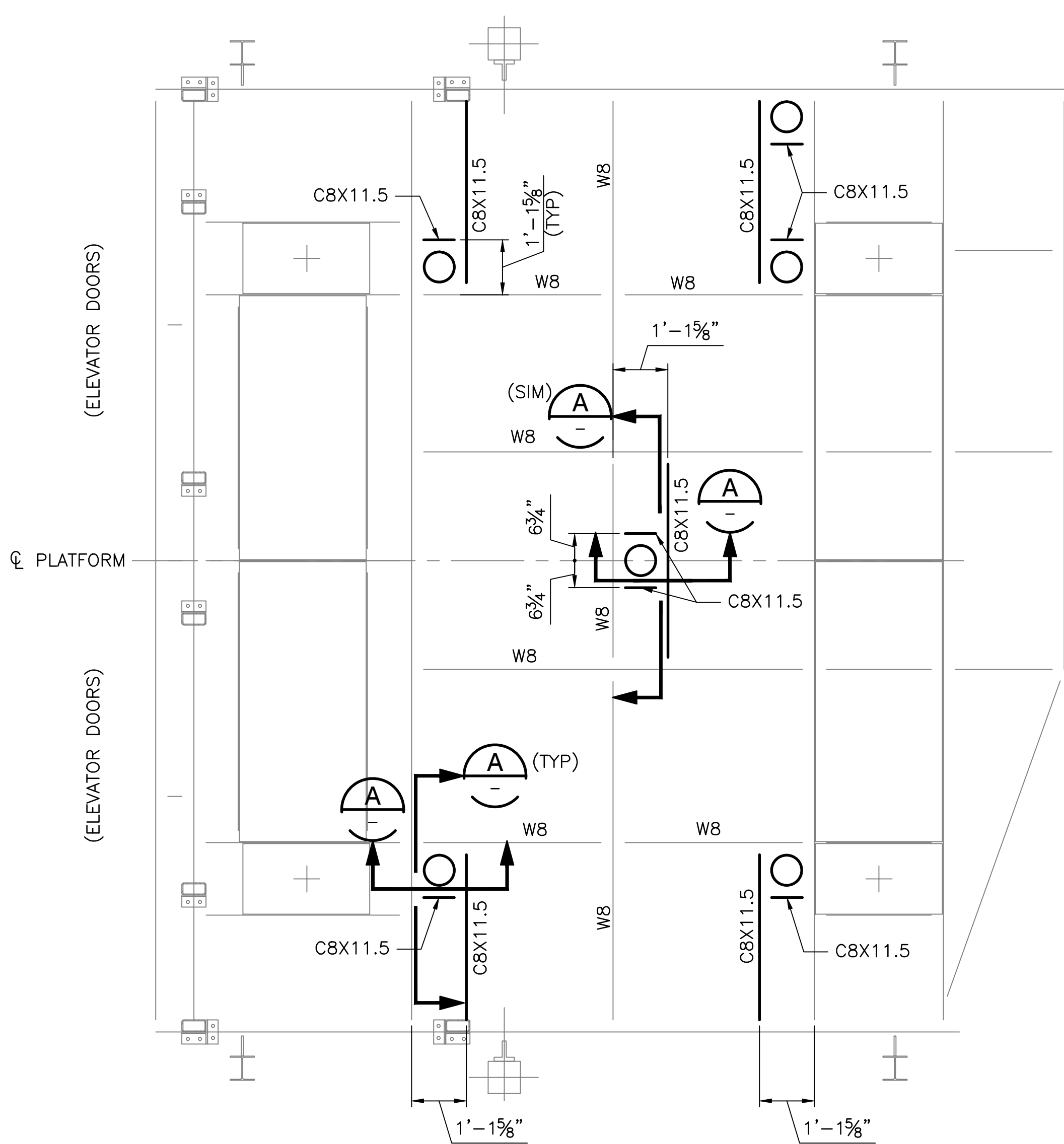


SECTION (A)
SCALE: 3"=1'-0"

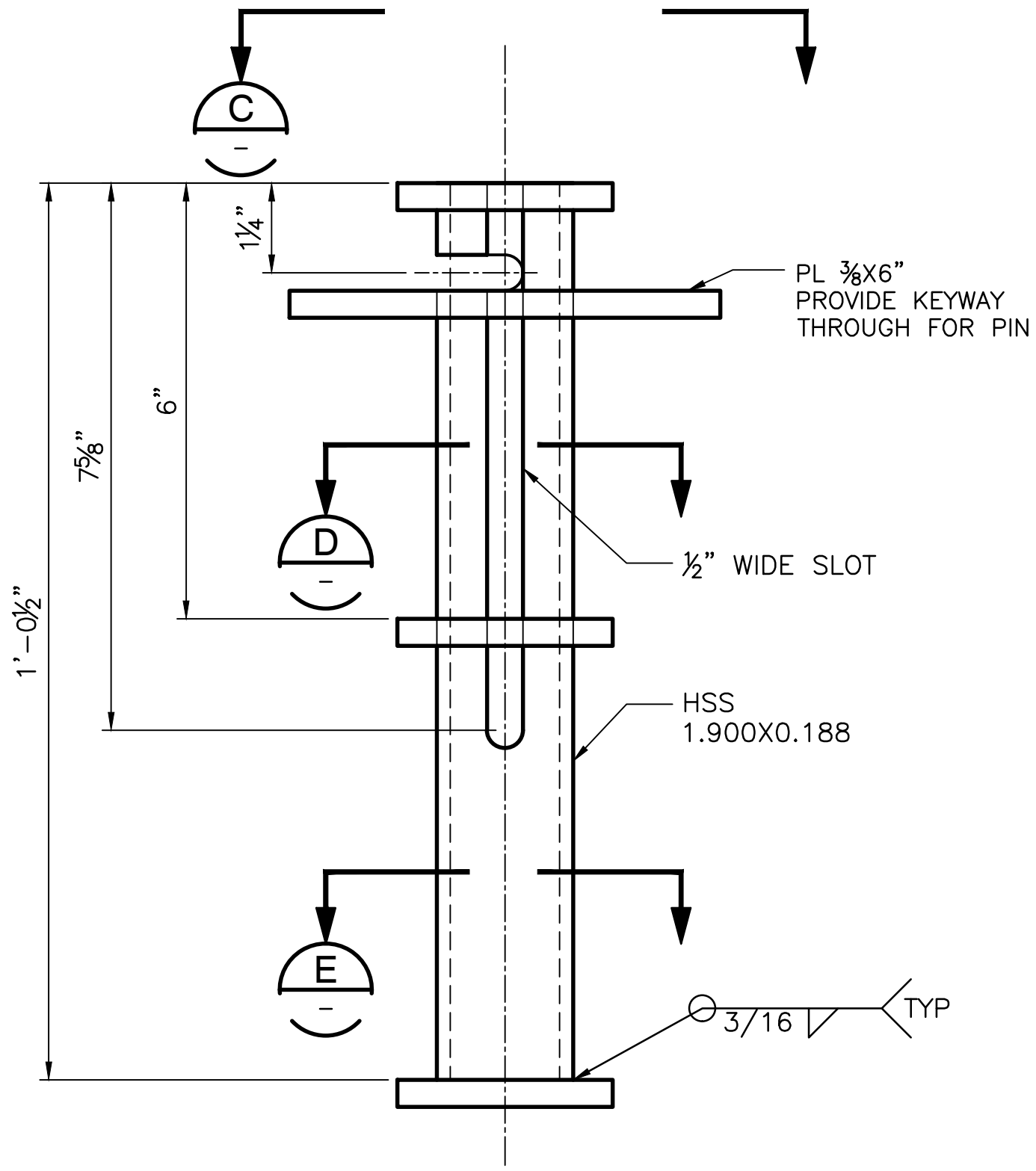
CAP DETAIL
SCALE: 3"=1'-0"



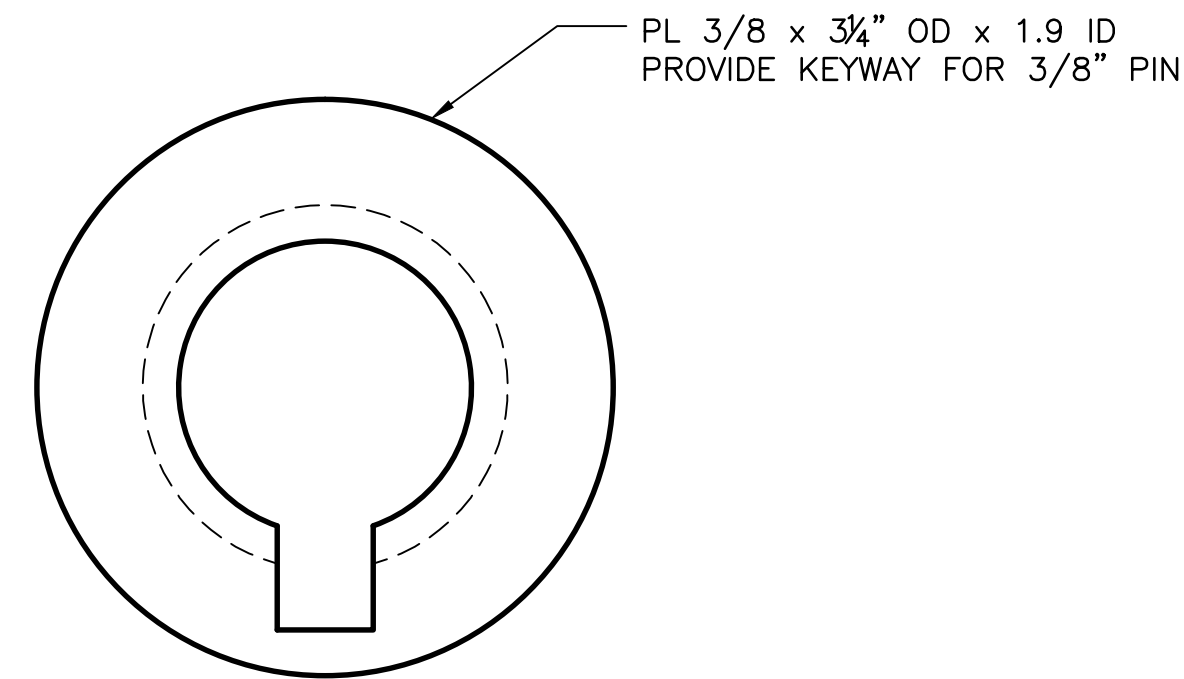
REMOVABLE GUARDRAIL BASE DETAIL
SCALE: 6"=1'-0"



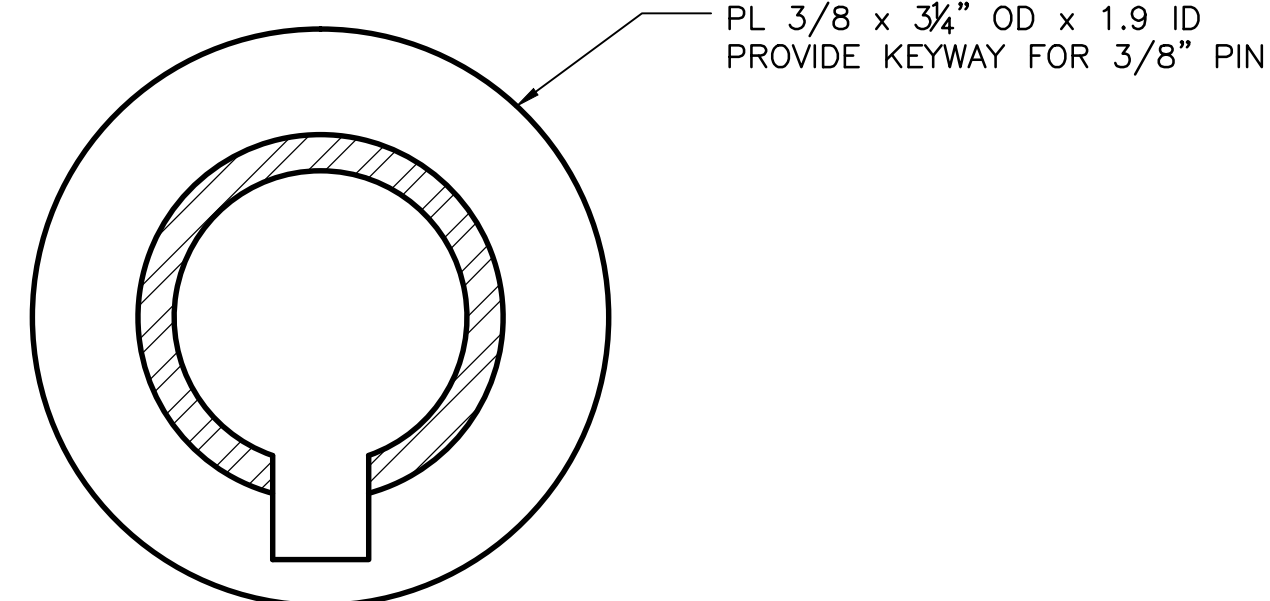
FALL ARREST AT ELEVATOR LANDINGS - PLAN
SCALE: 1/2"=1'-0"



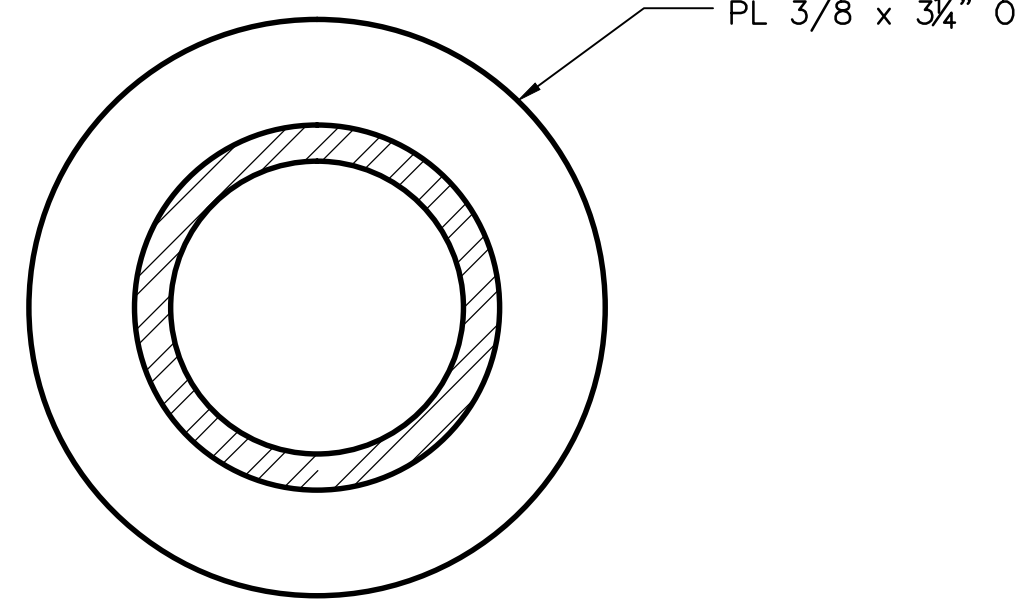
DETAIL (2)
SCALE: 6"=1'-0"



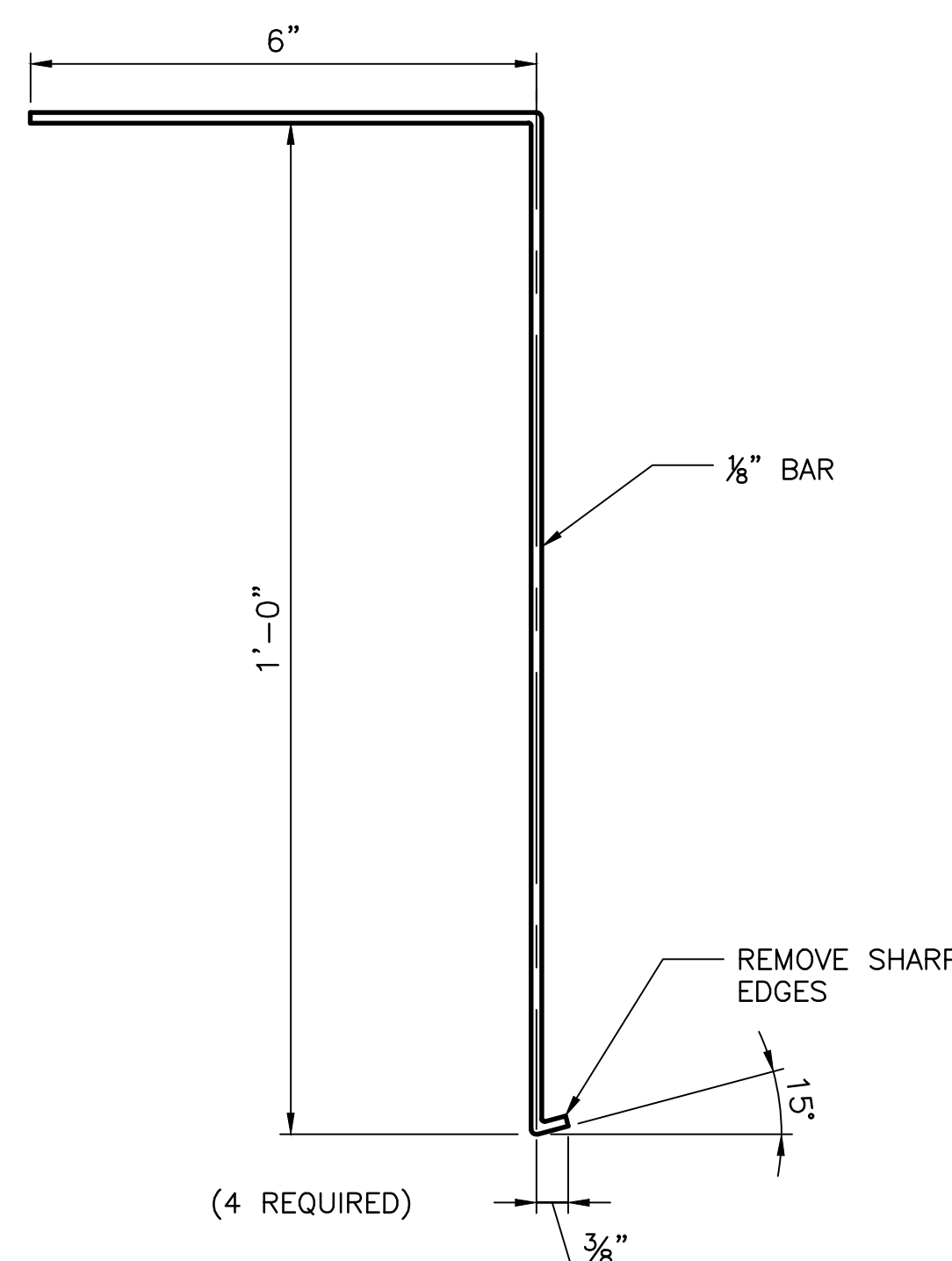
VIEW (C)
SCALE: 1'-0"=1'-0"



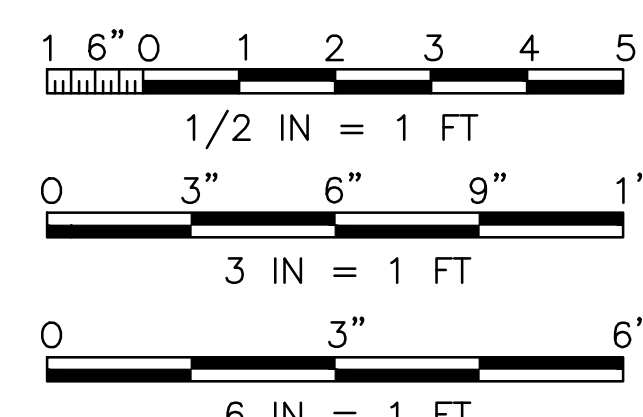
SECTION (D)
SCALE: 1'-0"=1'-0"



SECTION (E)
SCALE: 1'-0"=1'-0"



PEG EXTRACTION DEVICE DETAIL
SCALE: 6"=1'-0"



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THIS COMPUTER DRAWING WAS
CREATED IN AUTOCAD AND
FILED UNDER THE DRAWING NUMBER

S-607

SPECIFIC NOTES:

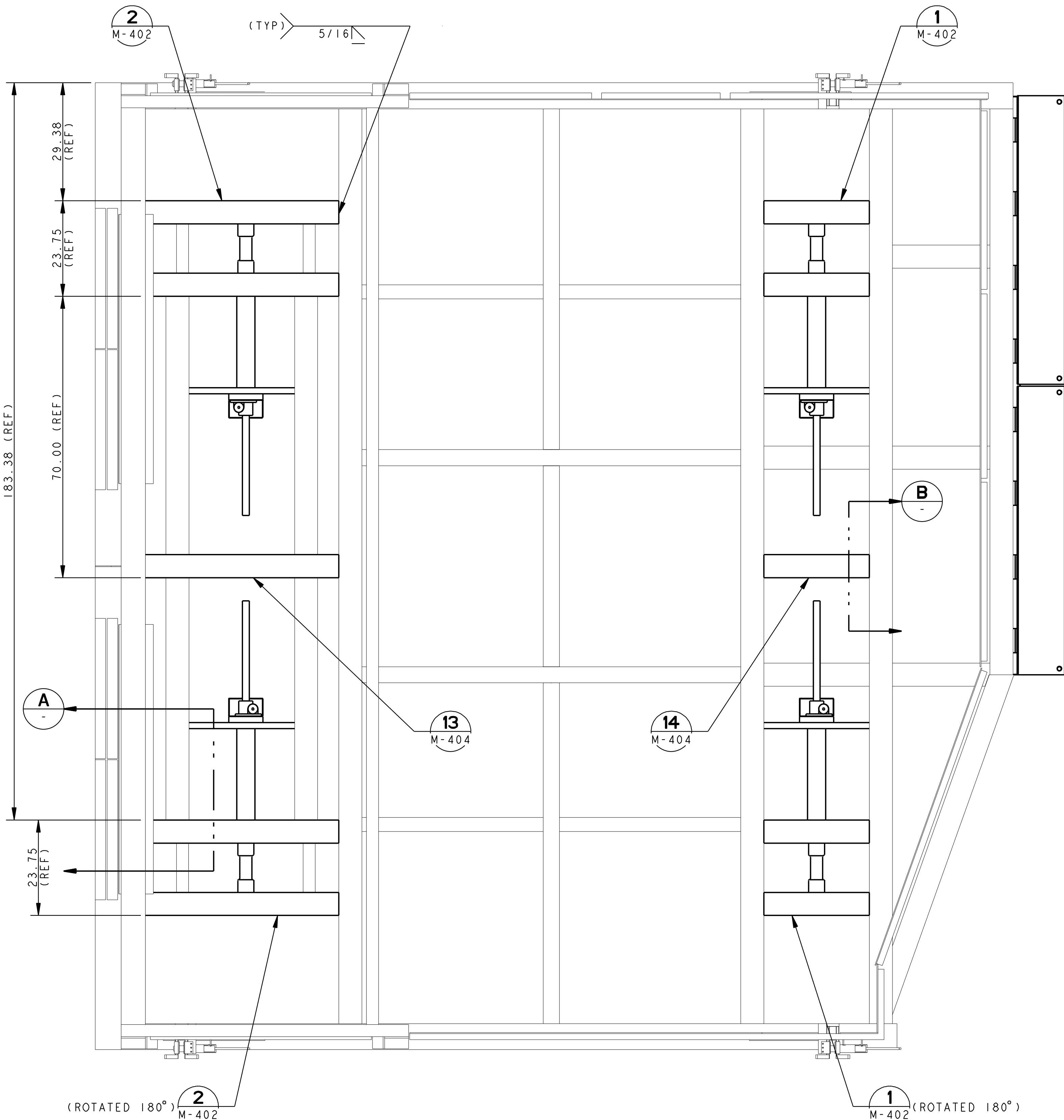
- A. PROVIDE ANCHOR PLATE TO MATCH PROVIDED FALL PROTECTION POST.
DBI SALA PART NUMBER: 8510816
MILLER PART NUMBER: DH-AP-5/
UCL ADVANCED SAFETY SYSTEMS PART NUMBER: 17423
- B. CONTRACTOR SHALL PROVIDE (12) PORTABLE FALL PROTECTION POSTS.
DBI SALA PART NUMBER: 8516691
MILLER PART NUMBER: DH-AP-1/
UCL ADVANCED SAFETY SYSTEMS PART NUMBER: 16691

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|---|--------------|-------------|--------------|----------|
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| NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | | | | |
| LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS -- ELEVATOR LANDINGS ELEVATOR LANDING DETAILS -- 7 | | | | |
| SIGNATURES | DATE | | | |
| DRAWN: JOSEPH HAUER | 08-20-2013 | | | |
| CHECKED: MIKE KENDRICK | 08-20-2013 | | | |
| SUBMITTED ARCHIVING OF RECORD | | | | |
| JAMES BALMER | | | | |
| ST. OF LICENSURE: FL | | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERESMAR | | | | |
| MIKE HARTNETT | | | | |
| FILE NO. | 302-6058-043 | SIZE | 302-6058-043 | REV |
| PROJ. NO. | PCN 99000.5 | SHEET | 21 | OF |

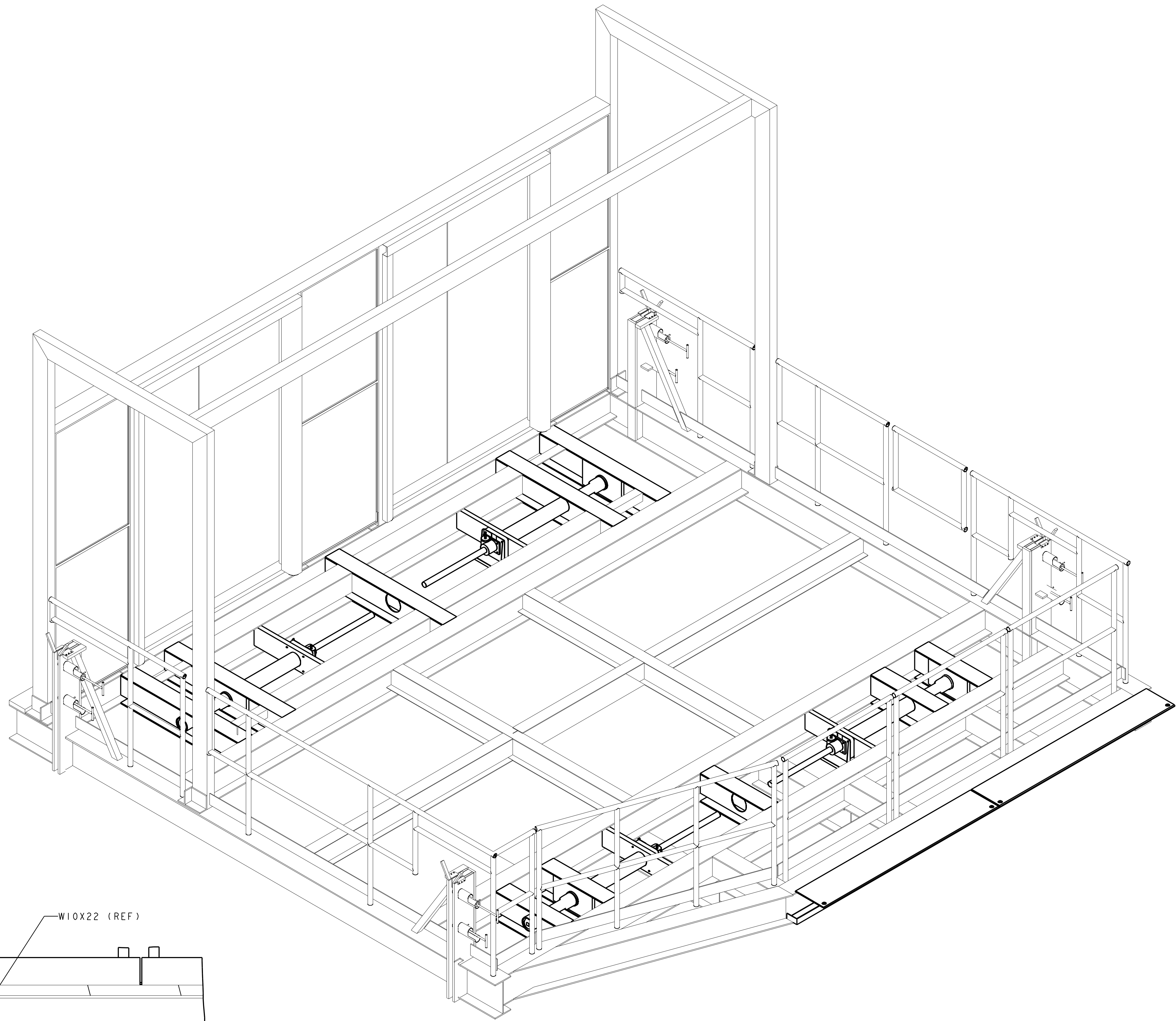
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MECHANICAL GENERAL NOTES:

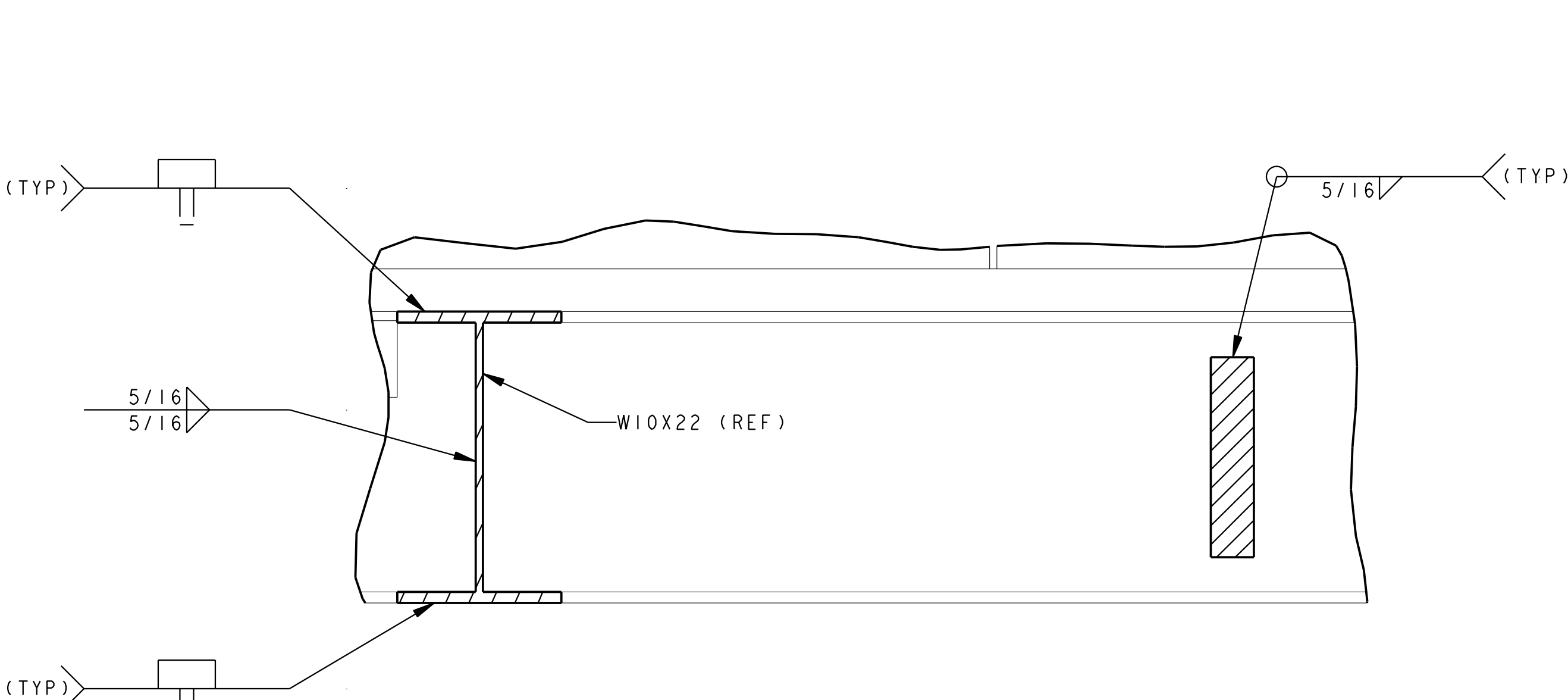
- CLEAN COMPONENT PARTS PER MIL-S-5002 BEFORE WELDING.
- WELD PER NASA-SPEC-5004. WELDERS AND WELDING OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.1. ALL WELDS REQUIRE A CLASS B INSPECTION UNLESS NOTED AS CLASS A IN THE WELD SYMBOL OR IN THE WELDMENT NOTATION.
- TOLERANCES:
X.X +/- 0.1
X.XX +/- 0.01
X.XXX +/- .005
ANGLE +/- 0.5
- FLOORING NOT SHOWN FOR CLARITY.
- FOR ELEVATOR PLATFORM STRUCTURAL INFORMATION REFER TO SHEET S-600 THRU S-603.
- JACKSCREW MAINTENANCE ACCESS HATCH FRAMING NOT SHOWN FOR CLARITY.



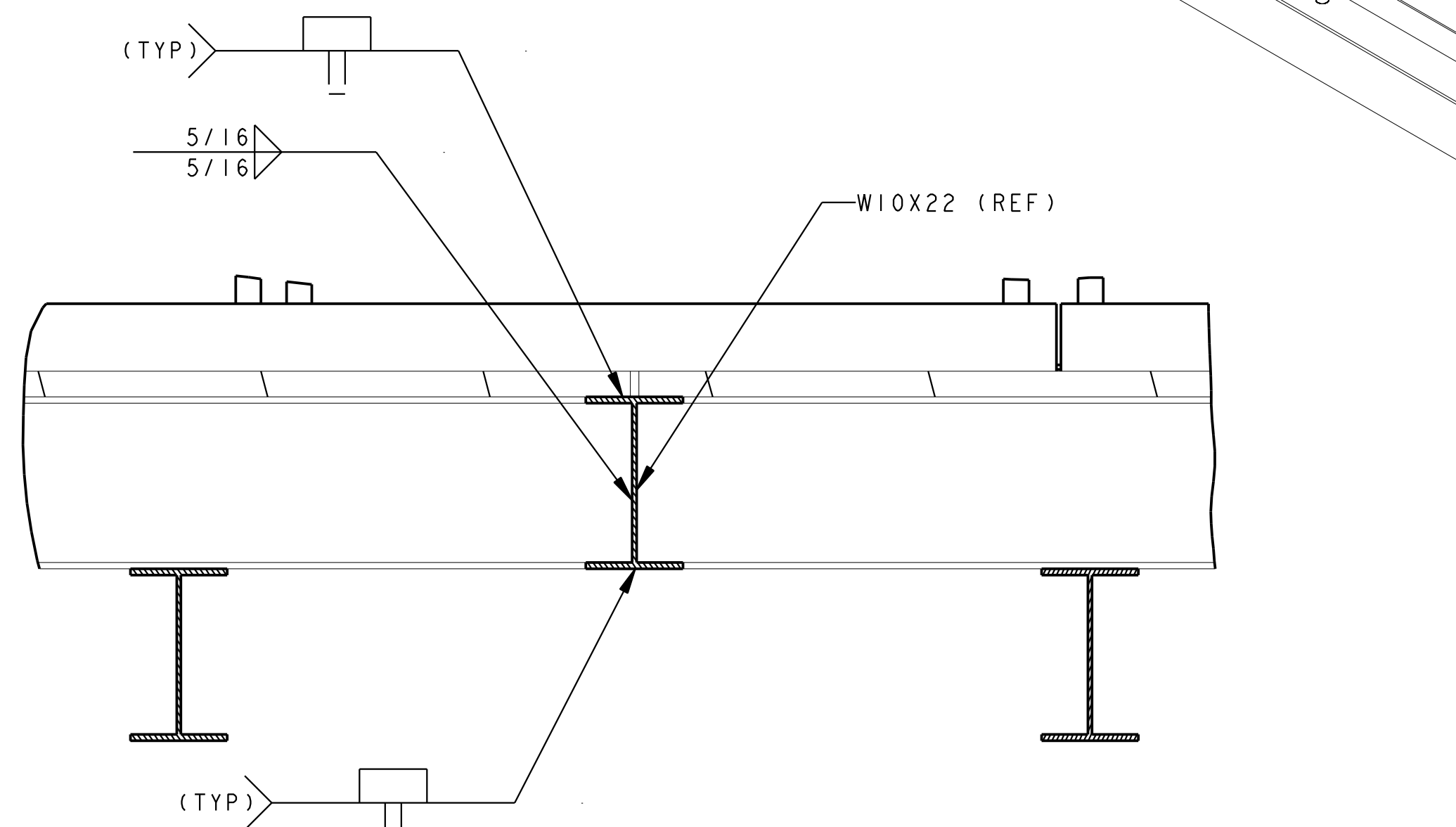
ELEVATOR PLATFORM LIFTING LUG ASSEMBLY LAYOUT
SCALE: 3/4" = 1'-0"



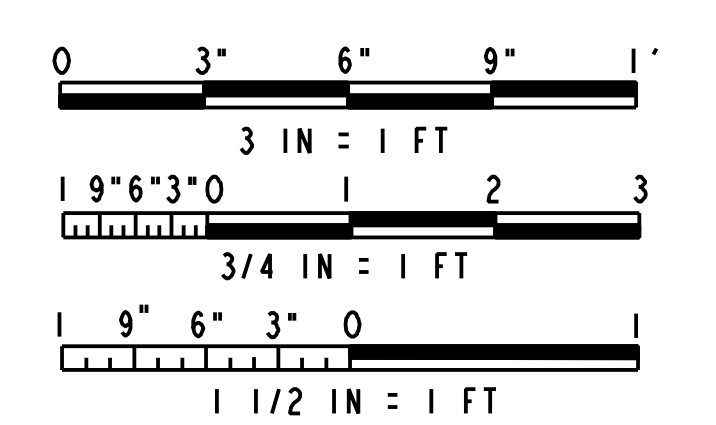
ELEVATOR PLATFORM LIFTING LUG ASSEMBLY ISO
SCALE: 3/4" = 1'-0"



TYPICAL FRAME TO STRUCTURE CONNECTION SECTION A
SCALE: 3" = 1'-0"

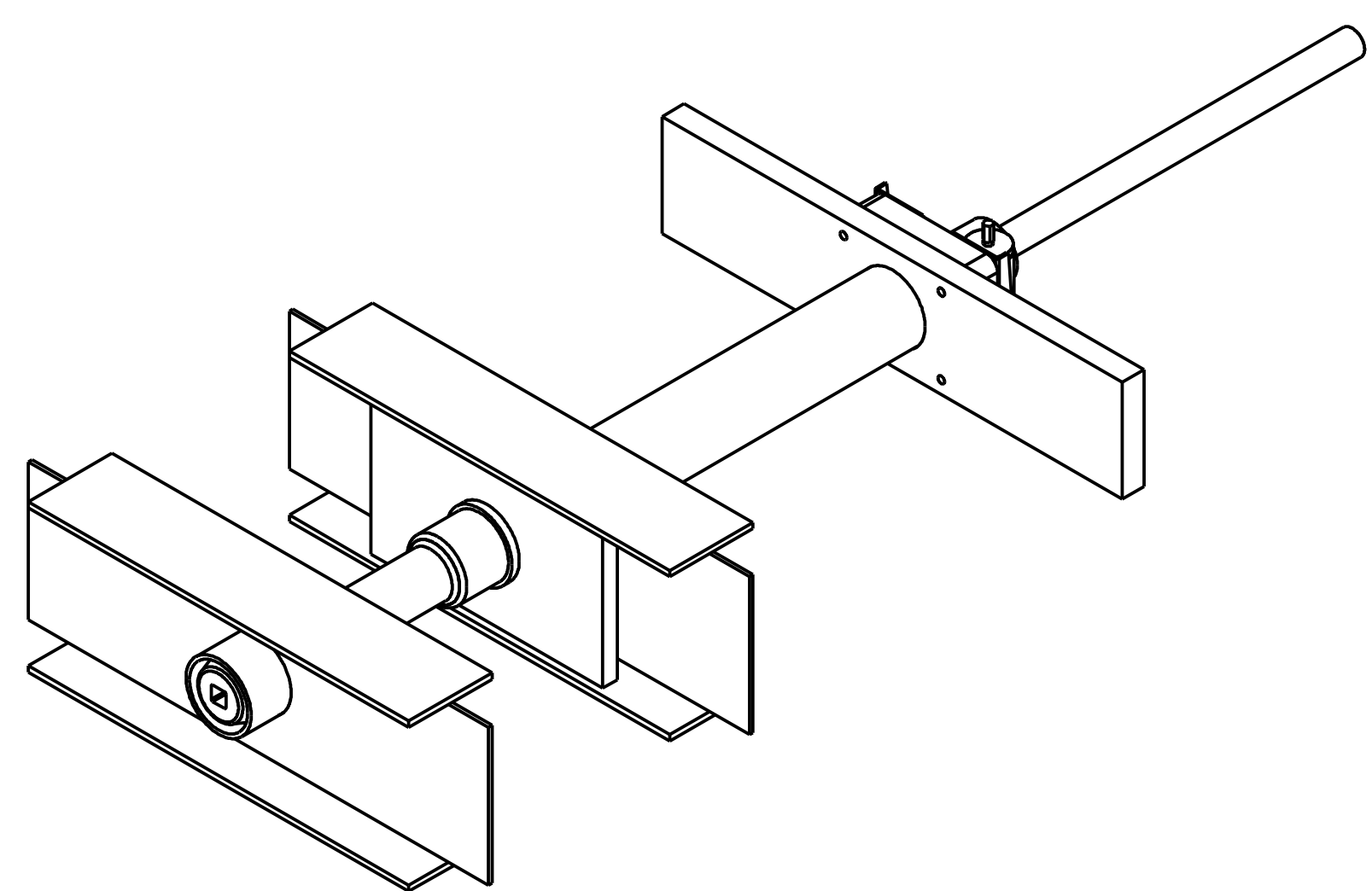


TYPICAL ACCESS COVER SUPPORT TO STRUCTURE CONNECTION SECTION B
SCALE: 1 1/2" = 1'-0"

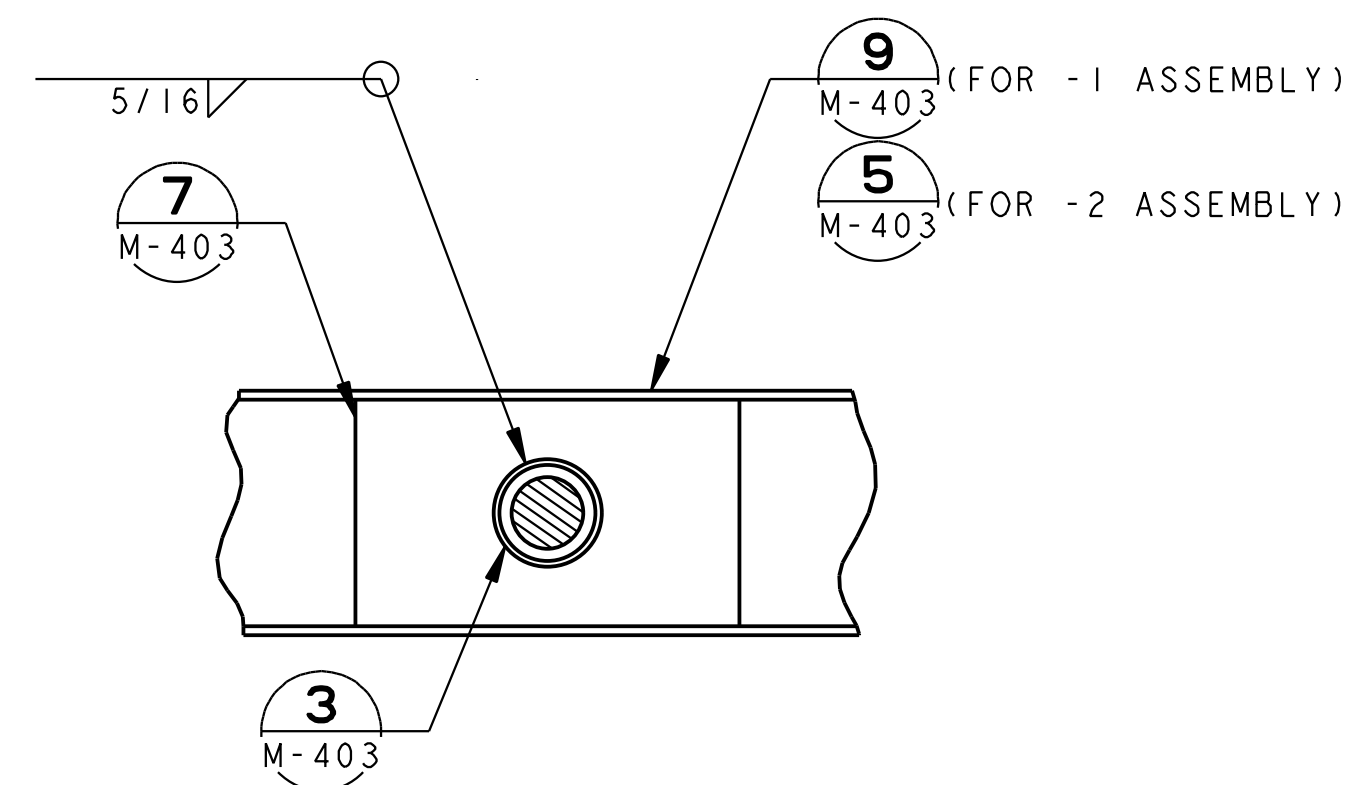


| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|------------------------------|------|-------------|---|----------|
| REVISIONS | | | | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | |
| DRAWN: JOE D'AMICO | | 08/20/2013 | JOHN F. KENNEDY SPACE CENTER, NASA | |
| CHECKED: DAVID KELLER | | 08/20/2013 | KENNEDY SPACE CENTER, FLORIDA | |
| SUBMITTED: ARCHIVE OF RECORD | | | LAUNCH COMPLEX 39 | |
| ROBERT PRUSS | | | VEHICLE ASSEMBLY BUILDING | |
| ST OF LICENSURE: FL | | | HIGH BAY 3 FOR SLS | |
| LICENSE NO: | | | ELEVATOR PLATFORM MECHANICAL | |
| APPROVED: | | | GENERAL NOTES/LIFTING LUG ASSEMBLY-1 | |
| STEVE MOORE | | | FILE NO: 302-6058-043 | |
| MIKE HARTNETT | | | SIZE: DWG. NO. 79K39665 | |
| | | | PROJ. NO. PCN 99000.5 | |
| | | | SHEET 22 OF | |

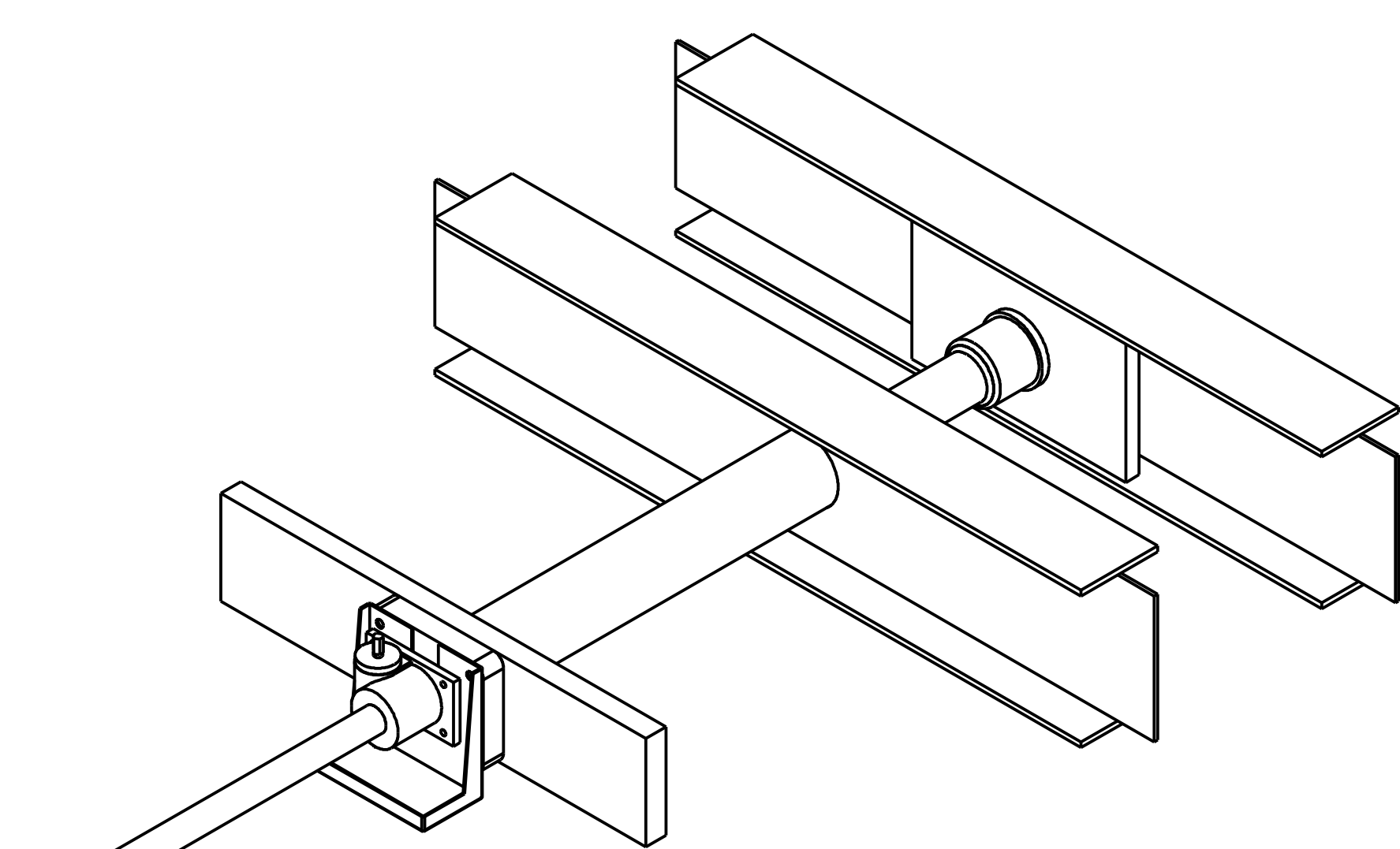
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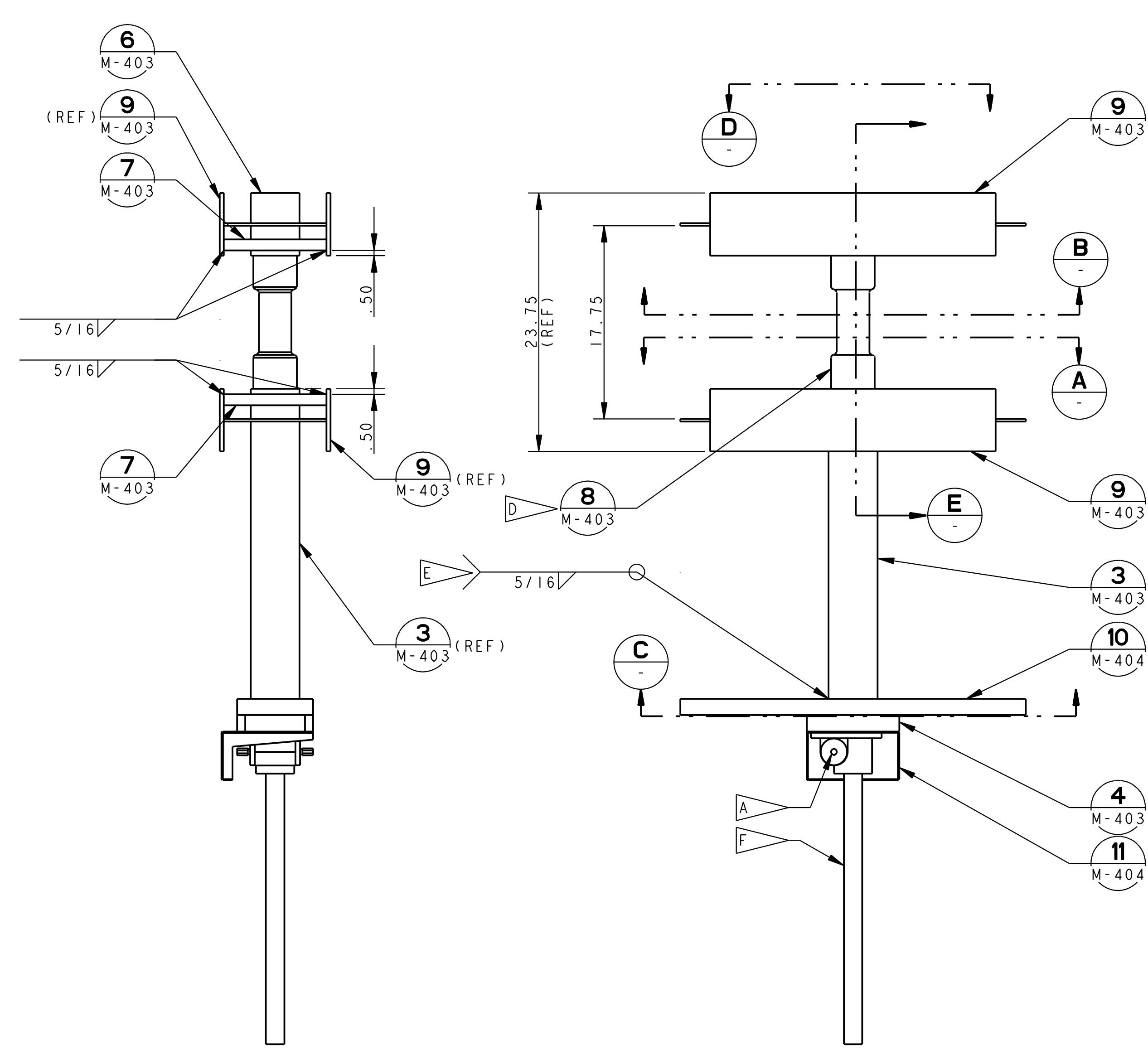
ELEVATOR PLATFORM LIFTING LUG ASSEMBLY - 1 ISO
SCALE: 1/2" = 1'-0"



SECTION
SCALE: 1 1/2" = 1'-0"

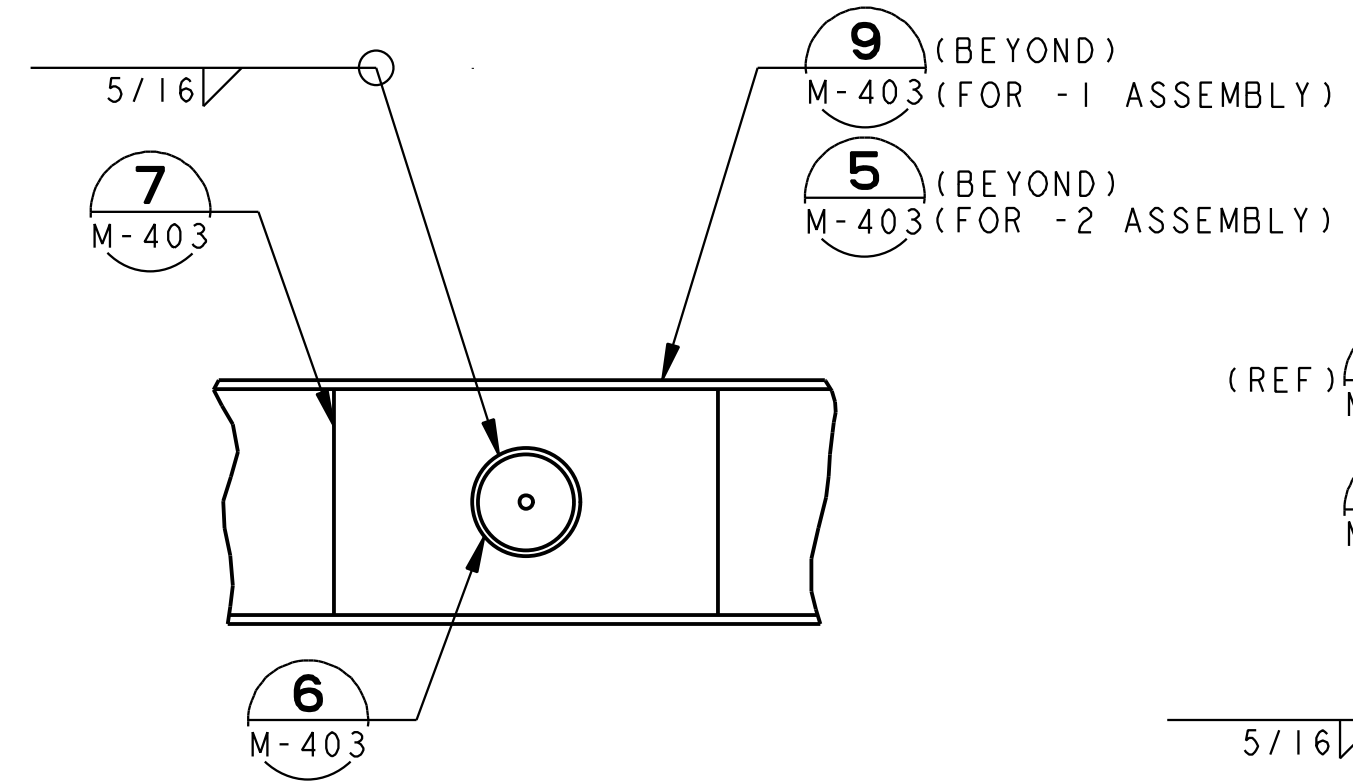


ELEVATOR PLATFORM LIFTING LUG ASSEMBLY - 2 ISO
SCALE: 1/2" = 1'-0"

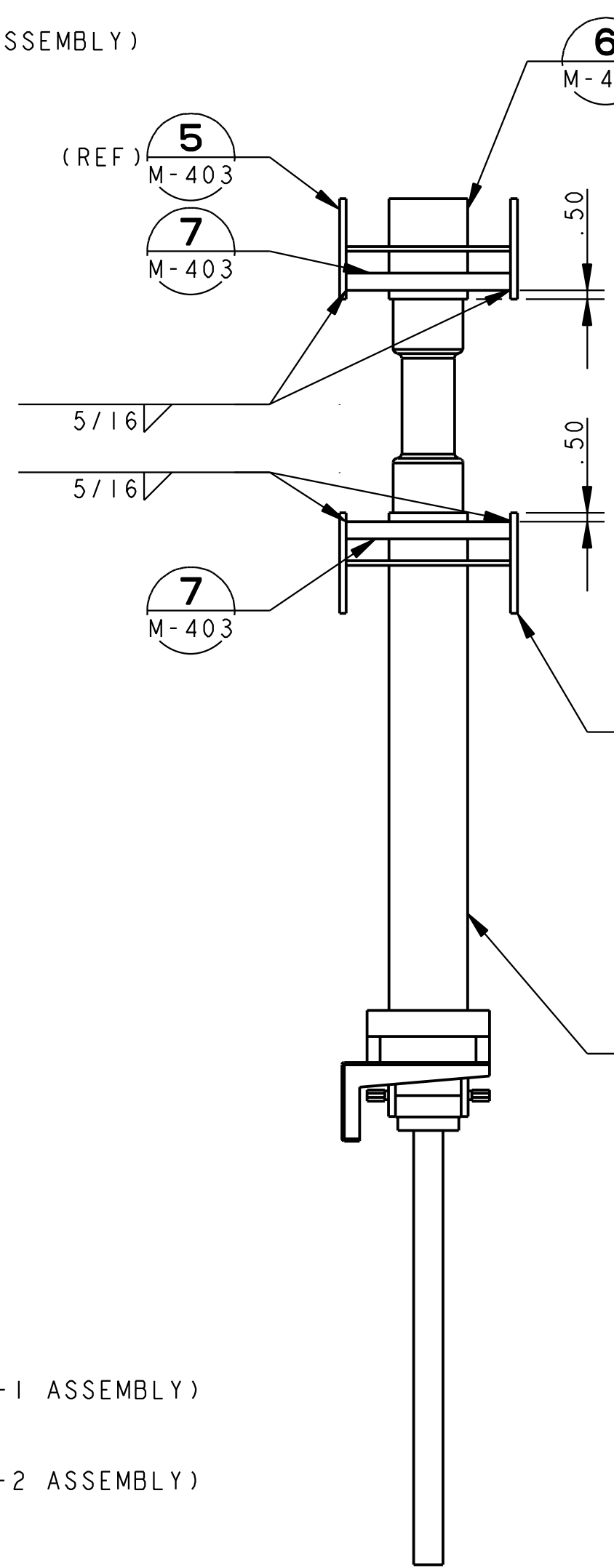


GRADE 8 PLAIN ALLOY STEEL HEX HEAD CAP SCREW
1/2"-20 THREAD, 3" LENGTH
ZINC-PLATED STEEL TYPE A USS FLAT WASHER
1/2" SCREW SIZE
ZINC-PLATED STEEL SPLIT LOCK WASHER
1/2" SCREW SIZE (4 PLCS)
GRADE 8 PLAIN ALLOY STEEL HEX HEAD CAP SCREW
3/8"-24 THREAD, 2" LENGTH
ZINC-PLATED STEEL TYPE A USS FLAT WASHER
3/8" SCREW SIZE
ZINC-PLATED STEEL SPLIT LOCK WASHER
3/8" SCREW SIZE (4 PLCS)

ELEVATOR PLATFORM LIFTING LUG ASSEMBLY - 1
SCALE: 1/2" = 1'-0"



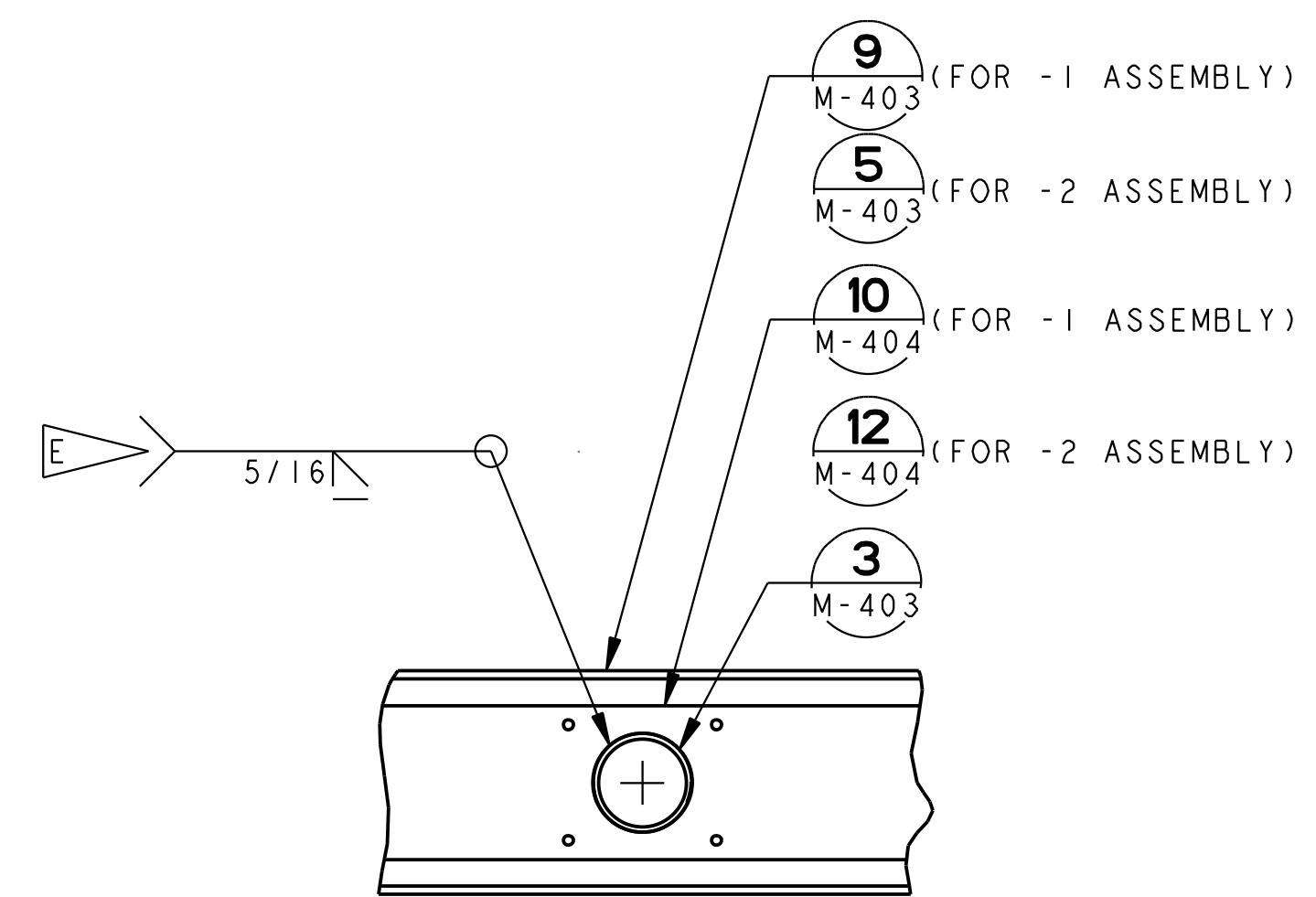
SECTION
SCALE: 1 1/2" = 1'-0"



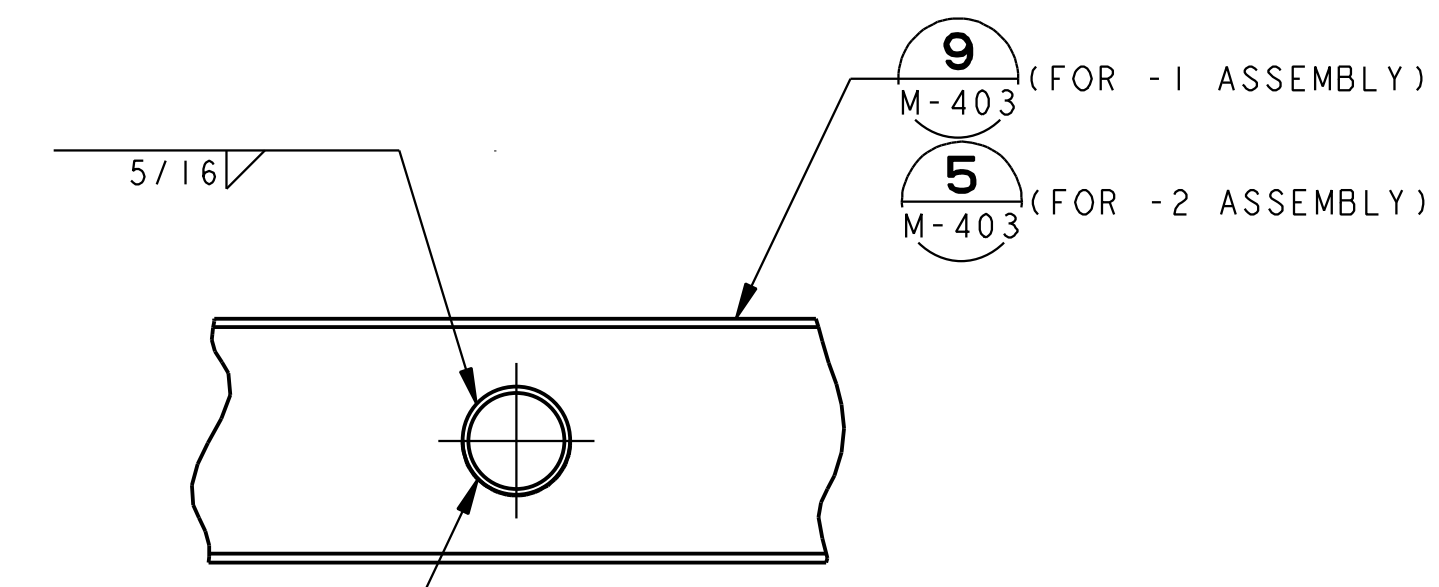
GRADE 8 PLAIN ALLOY STEEL HEX HEAD CAP SCREW
1/2"-20 THREAD, 3" LENGTH
ZINC-PLATED STEEL TYPE A USS FLAT WASHER
1/2" SCREW SIZE
ZINC-PLATED STEEL SPLIT LOCK WASHER
1/2" SCREW SIZE (4 PLCS)

GRADE 8 PLAIN ALLOY STEEL HEX HEAD CAP SCREW
3/8"-24 THREAD, 2" LENGTH
ZINC-PLATED STEEL TYPE A USS FLAT WASHER
3/8" SCREW SIZE
ZINC-PLATED STEEL SPLIT LOCK WASHER
3/8" SCREW SIZE (4 PLCS)

ELEVATOR PLATFORM LIFTING LUG ASSEMBLY - 2
SCALE: 1/2" = 1'-0"

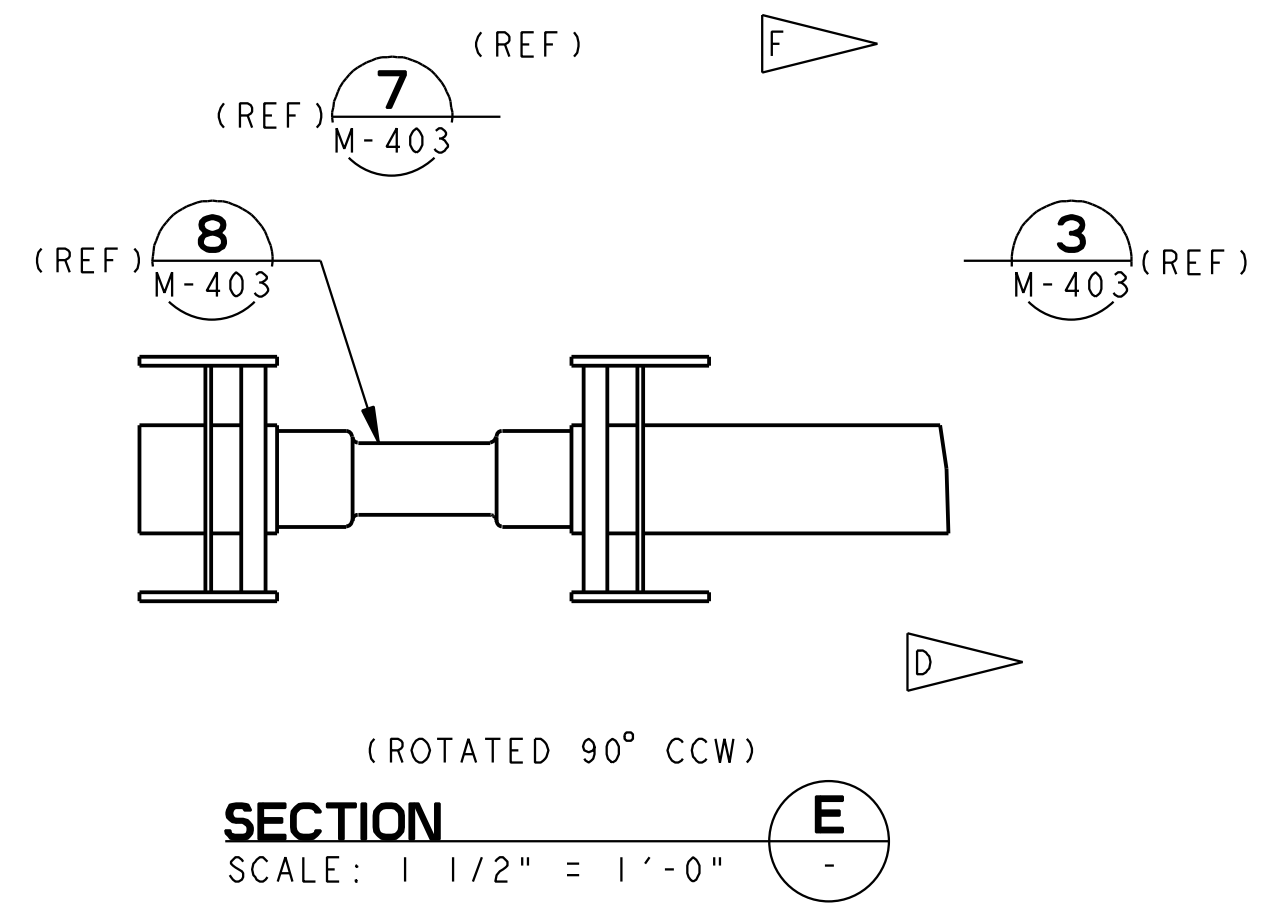


VIEW
SCALE: 1 1/2" = 1'-0"

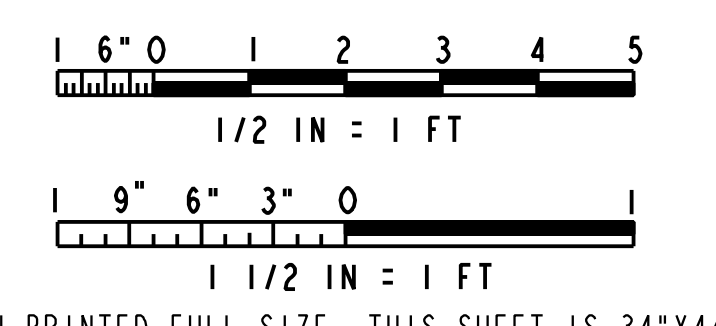


VIEW
SCALE: 1 1/2" = 1'-0"

- SPECIFIC NOTES:**
- A TO EXTEND AND RETRACT LIFTING LUG, ROTATE JACKSCREW HEX INPUT SHAFT USING APPROPRIATE SOCKET.
 - B APPLY LOCTITE 242 OR EQUIVALENT PER MANUFACTURERS INSTRUCTION, TORQUE TO 780-790 IN/LBS.
 - C APPLY LOCTITE 242 OR EQUIVALENT PER MANUFACTURERS INSTRUCTION, TORQUE TO 400-410 IN/LBS.
 - D APPLY LOCTITE 242 OR EQUIVALENT PER MANUFACTURERS INSTRUCTION TO THREADS ON JACKSCREW PRIOR TO INSTALLING TO ITEM 8 (LIFTING LUG), TORQUE TO 655-665 IN/LBS. USE CAUTION WHEN TORQUEING ITEM 8 (LIFTING LUG) TO JACK SCREW SO NOT TO DAMAGE COMPONENTS.
 - E TOP OF ITEM 10 AND 12 SHALL BE PARALLEL TO THE TOP FLANGE OF ITEMS 5 OR 9 PRIOR TO WELDING.
 - F DUFF-NORTON JACK SCREW
P/N: AIESBTCNBB-024.0-02.4-A11X11
(OAE)
TYPE: MACHINE SCREW, 3 TON
MODEL SELECTION: INVERTED TRANSLATING
STROKE / LIFT (INCHES): 28.00
END CONDITION: 5/8"-18 UNF THREADED END
WITH A COVER PIPE
CLOSED HEIGHT (INCHES): 2.100
DRIVE: (1) HEX INPUT SHAFT
SPECIAL FEATURE-BOTH WORM SHAFT HAVE HEX ENDS



SECTION
SCALE: 1 1/2" = 1'-0"

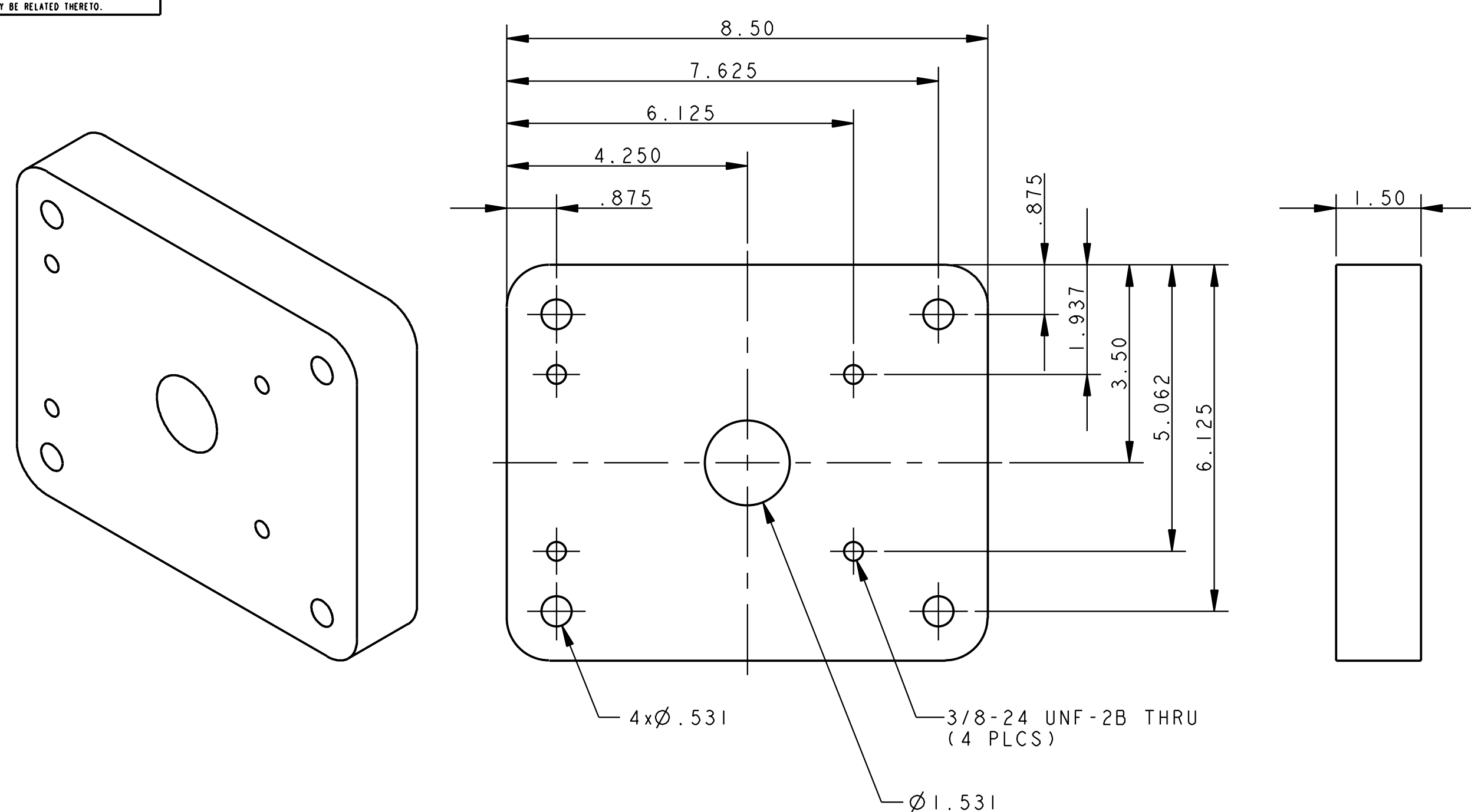


WHEN PRINTED FULL SIZE, THIS SHEET IS 34"x44"
THIS COMPUTER DRAWING WAS
CREATED IN PRO/ENGINEER AND
FILED UNDER THE DRAWING NUMBER

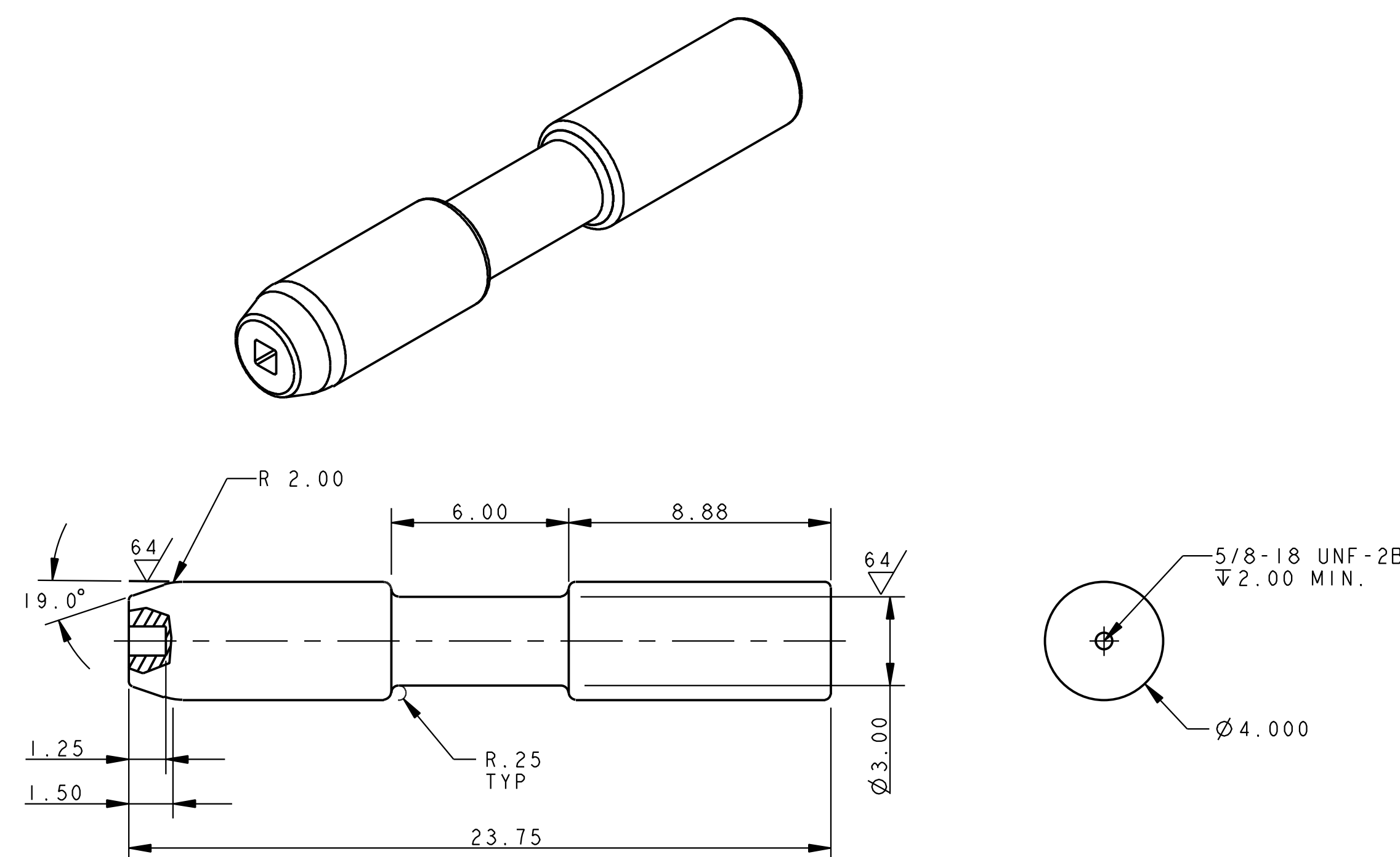
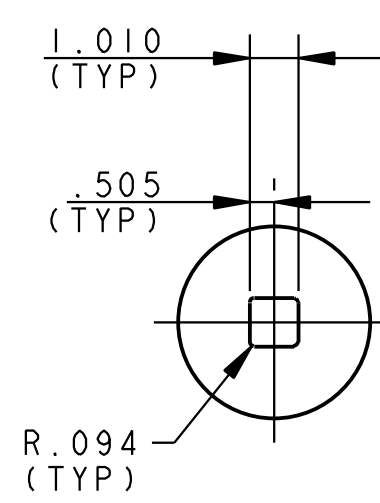
M-402

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|------------------------------|------|--|----------------|----------|
| REVISIONS | | | | |
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| SIGNATURES | | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | | |
| DRAWN: JOE D'AMICO | | JOHN F. KENNEDY SPACE CENTER, NASA | | |
| CHECKED: DAVID KELLER | | KENNEDY SPACE CENTER, FLORIDA | | |
| SUBMITTED: ARCHIVE OF RECORD | | LAUNCH COMPLEX 39 | | |
| ROBERT PRUSS | | VEHICLE ASSEMBLY BUILDING | | |
| ST OF LICENSE: FL | | HIGH BAY 3 FOR SLS | | |
| LICENSE NO: | | ELEVATOR PLATFORM | | |
| APPROVED: | | LIFTING LUG ASSEMBLY - 2 | | |
| STEVE MOORE | | FILE NO: | SIZE: DWG. NO: | REV: |
| MIKE HARTNETT | | 302-6058-043 | E 79K39665 | - |
| | | PROJ. NO: PCN 99000.5 | SHEET 23 | OF |




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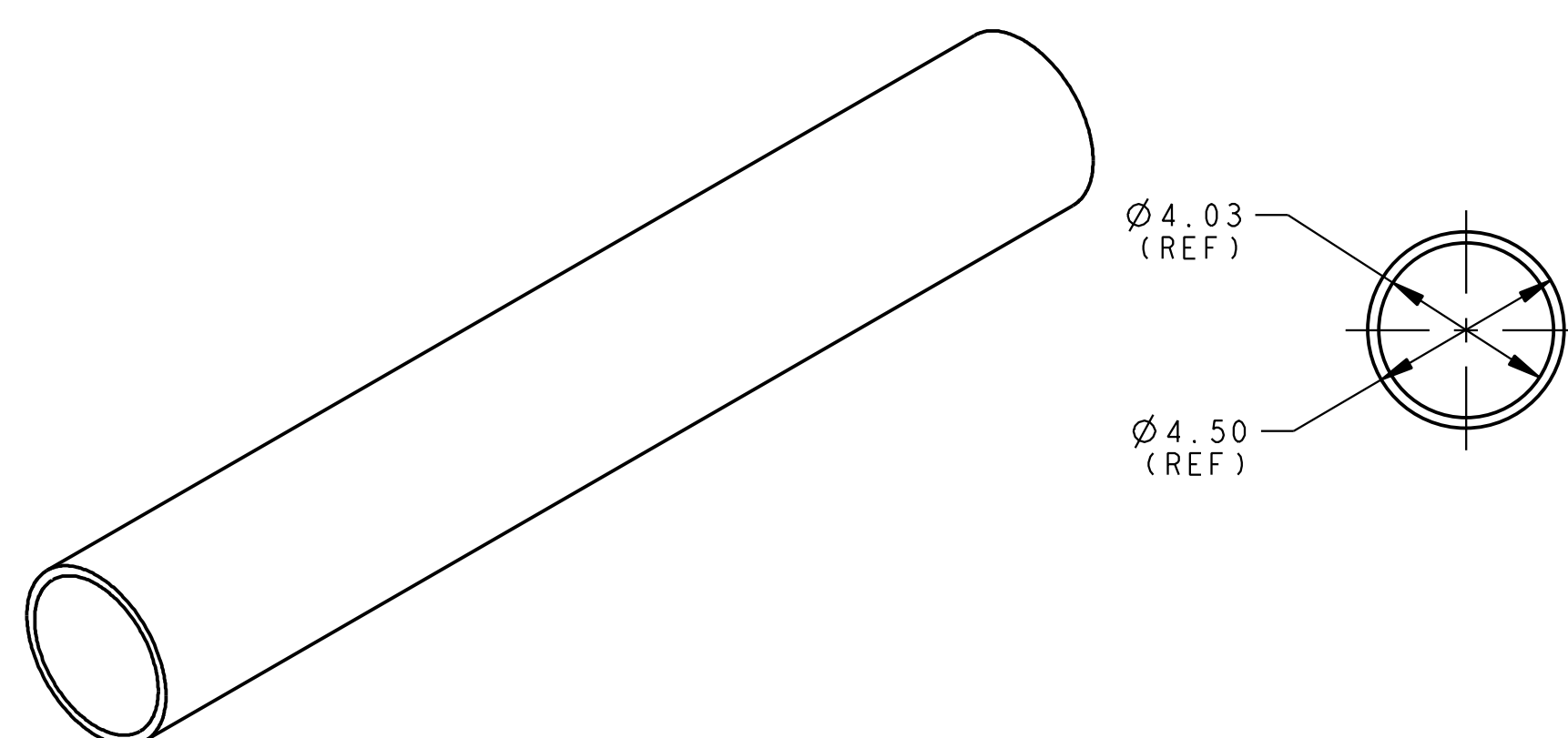
ADAPTER PLATE 4 4
SCALE: 1/2" = 1'-0" M-402 -



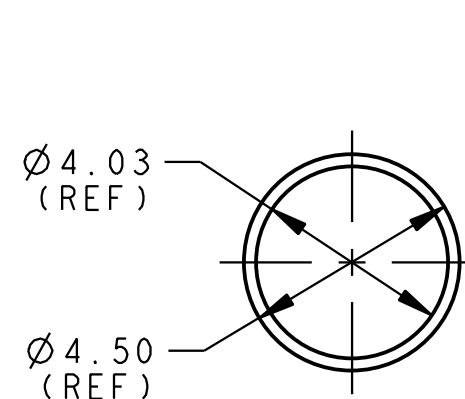
(ROTATED 180° CCW)

 **LIFTING LUG**  

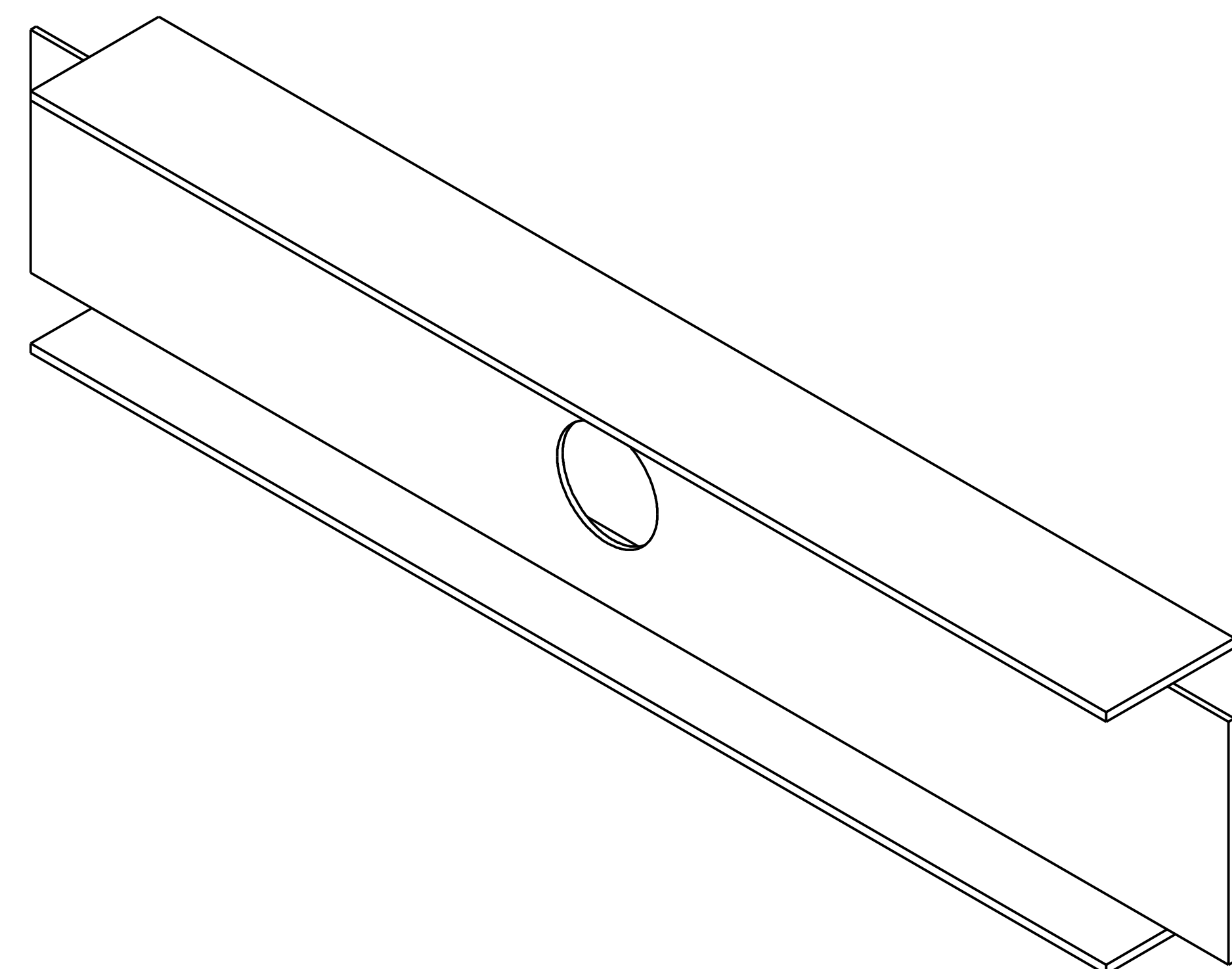
SCALE: 3" = 1'-0" M-402 -



LIFTING LUG TRANSLATION TUBE 3 3
SCALE: 3" = 1'-0" M-402 -



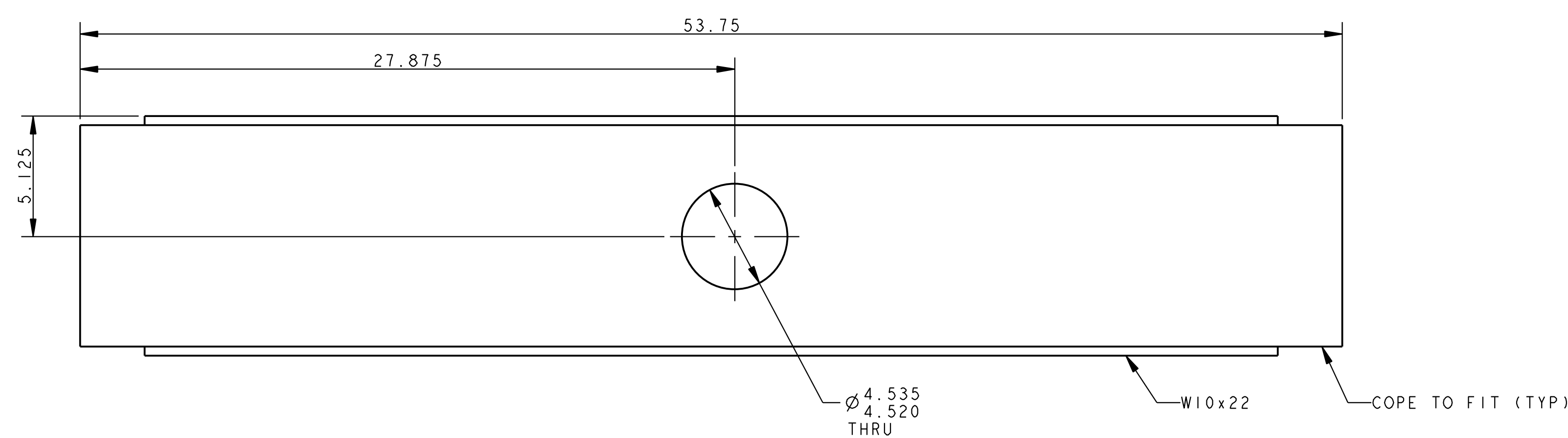
LIFTING LUG RECEIVING TUBE 6 6
SCALE: 3" = 1'-0" M-402 -



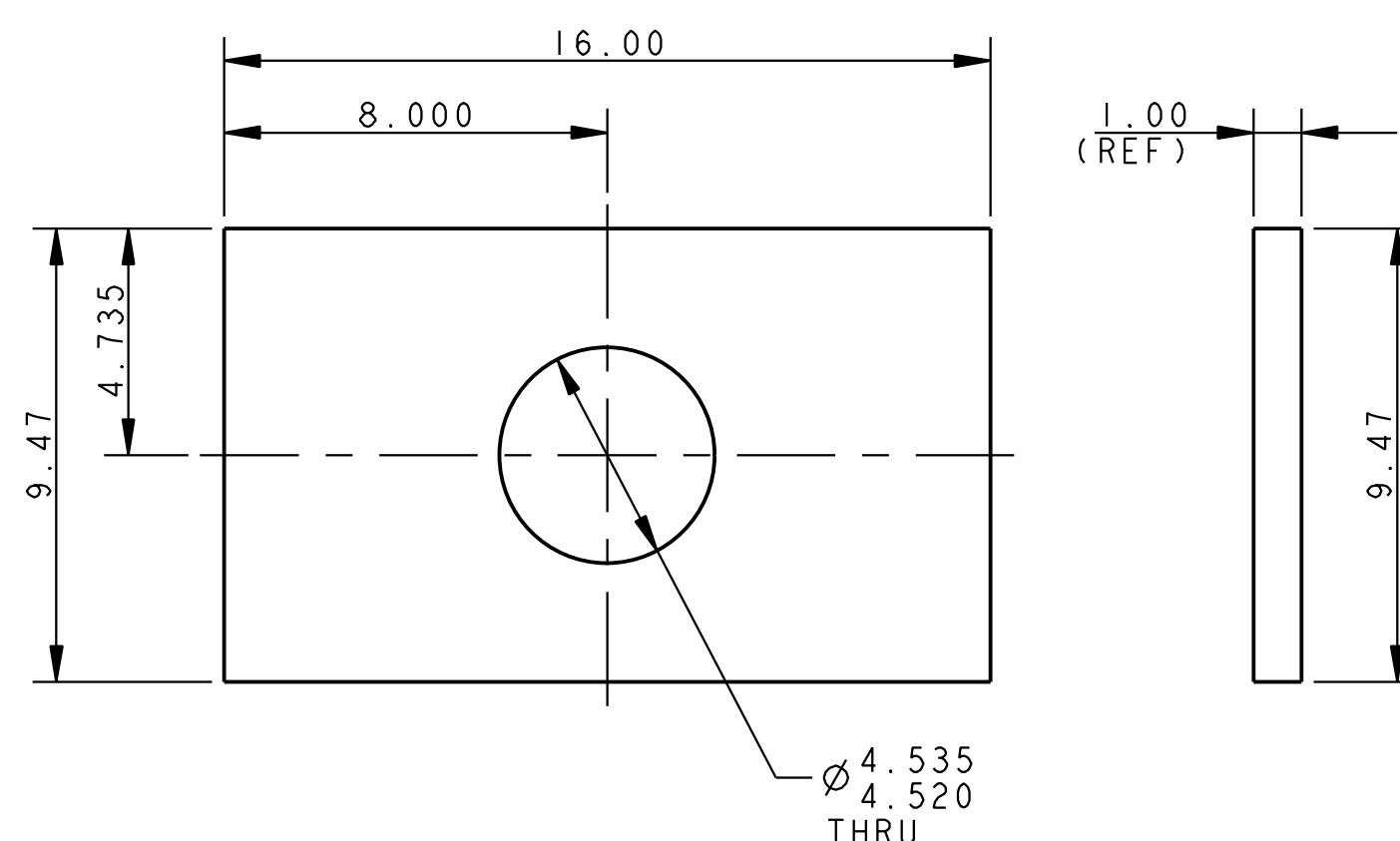
Technical drawing of a rectangular plate with a central hole. The drawing includes the following dimensions and labels:

- Overall width: 31.75
- Overall height: 5.125
- Hole diameter: $\varnothing 4.520$
- Distance from the right edge to the hole center: 15.875
- Label: W10x22 (pointing to the top edge)
- Label: COPE TO FIT (pointing to the bottom edge)

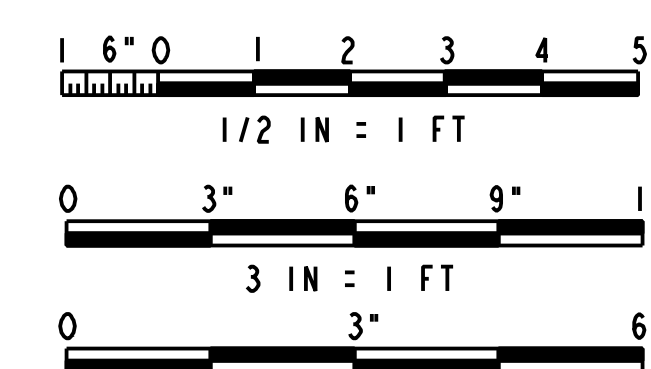
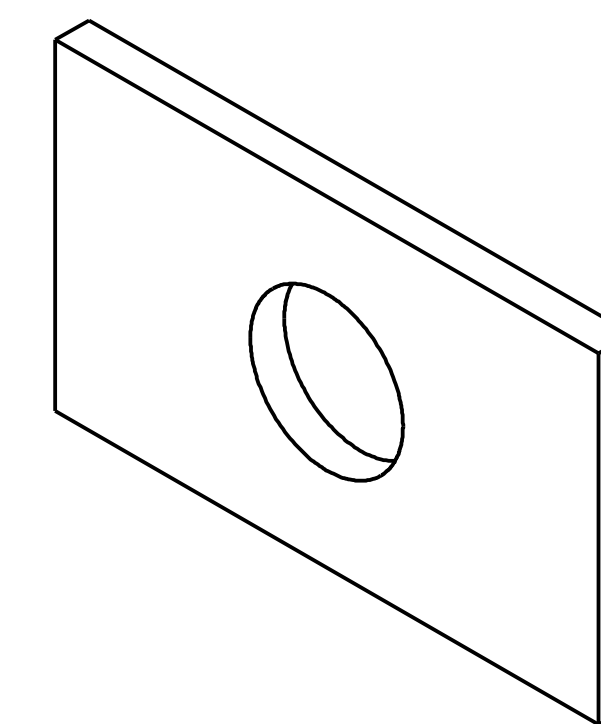
SHORT LIFTING LUG BEAM (9) (9)
SCALE: 3" = 1'-0" M-402 -



LIFTING LUG BEAM 5 5
SCALE: 3" = 1'-0" M-402 -




TUBE SUPPORT PLATE (7) (7)
SCALE: 3" = 1'-0" M-402 -



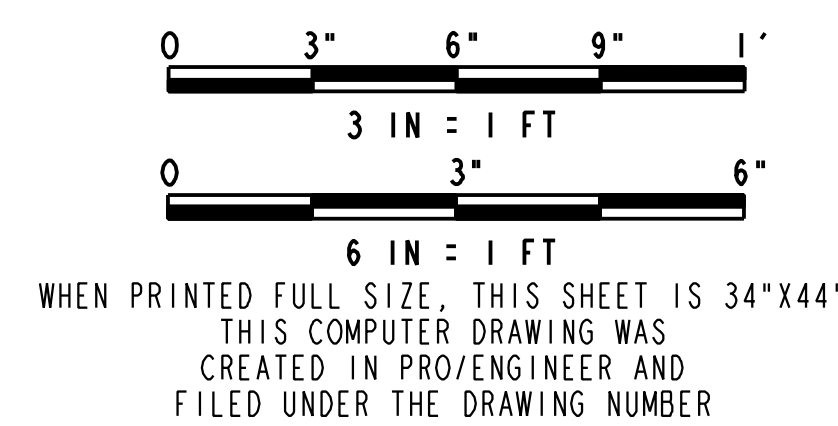
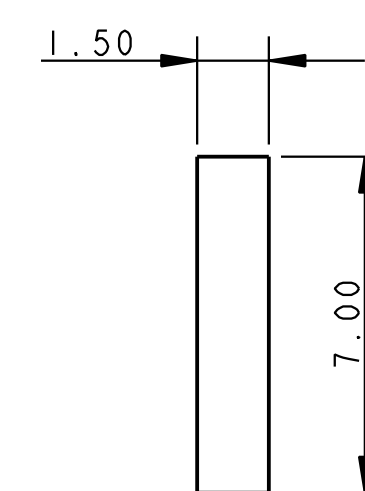
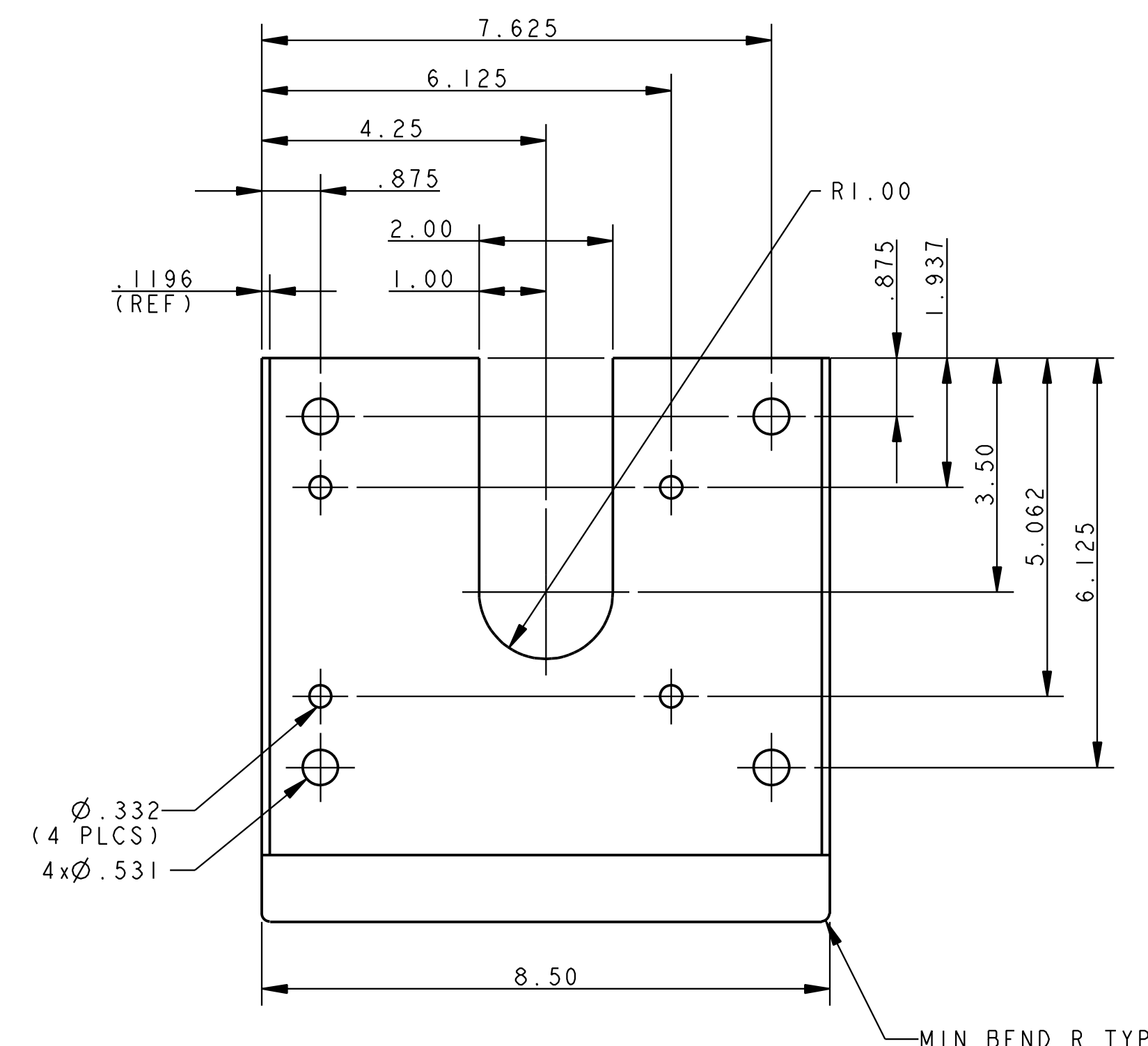
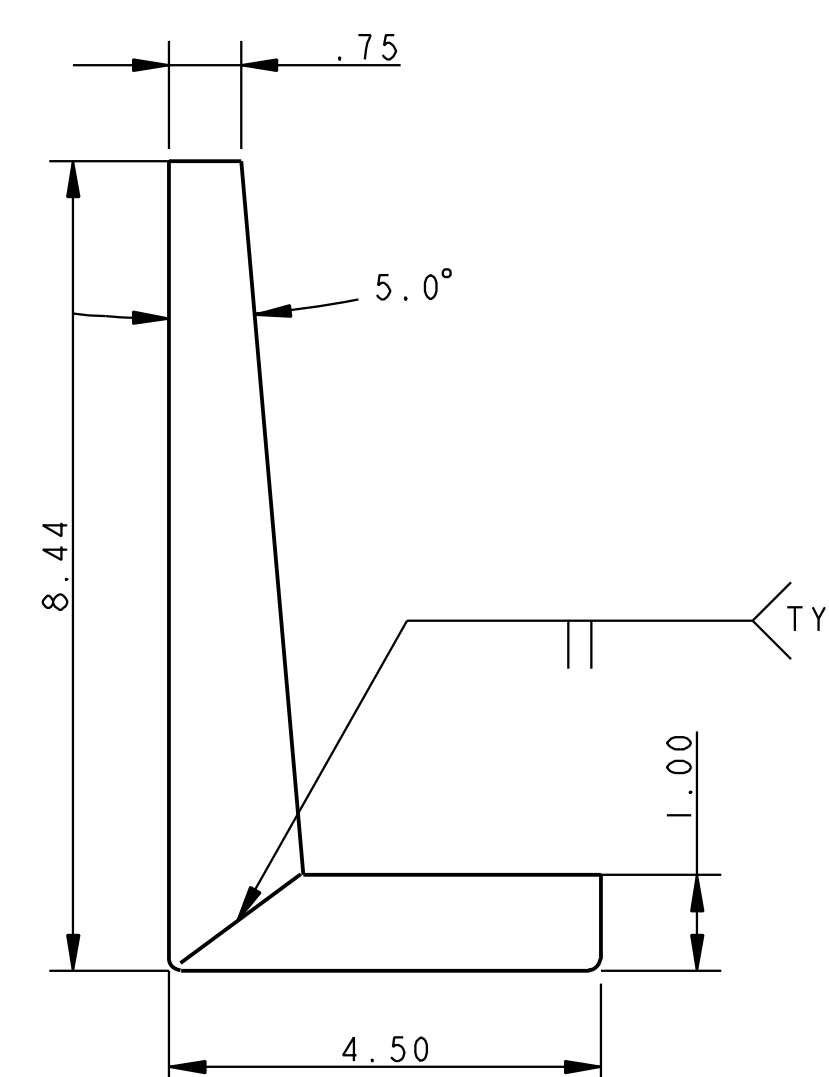
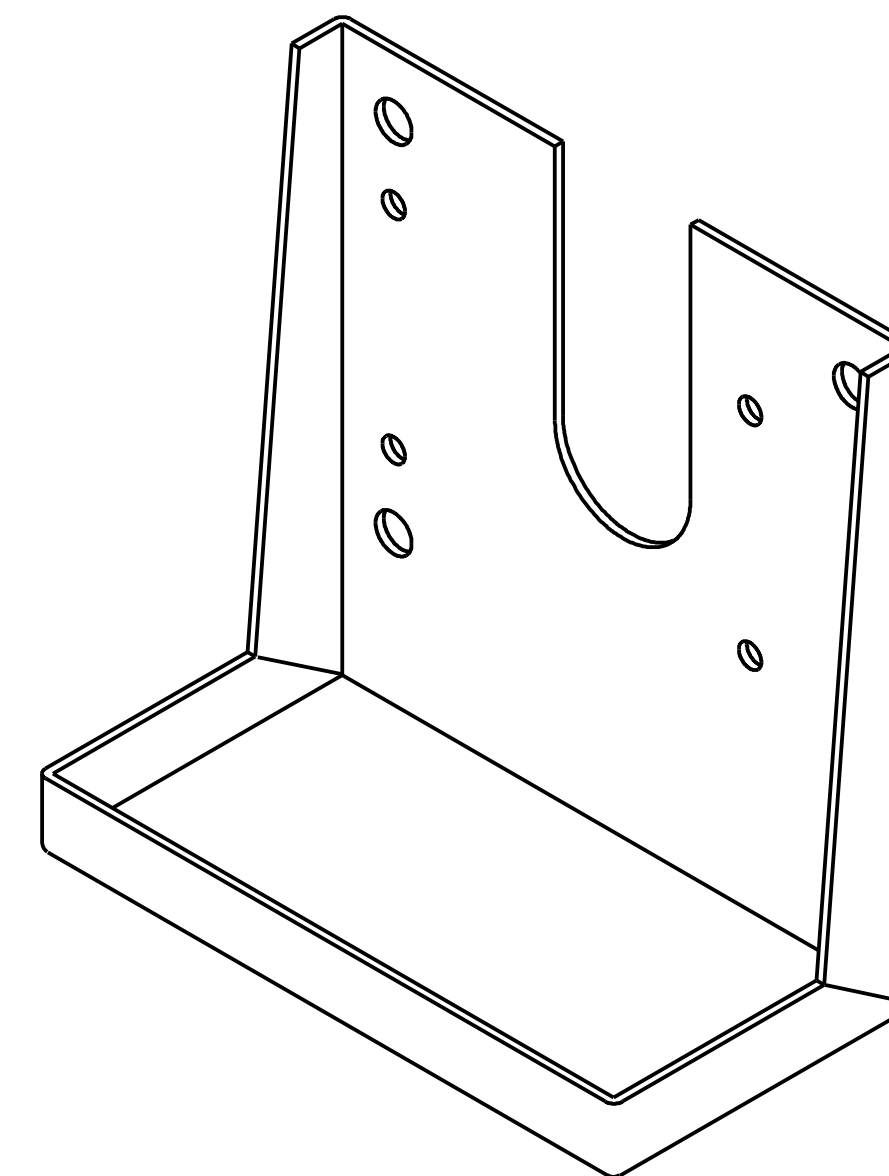
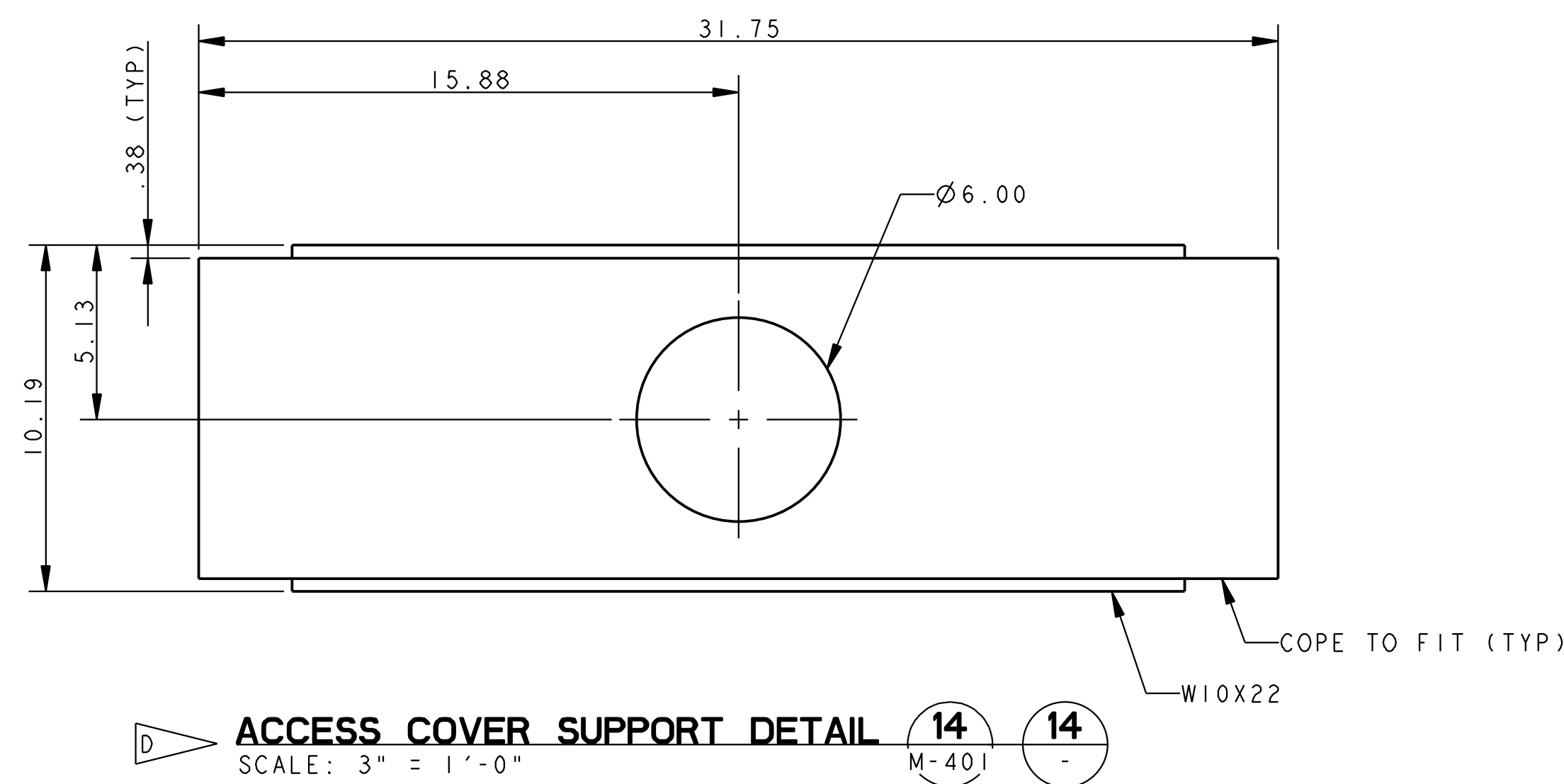
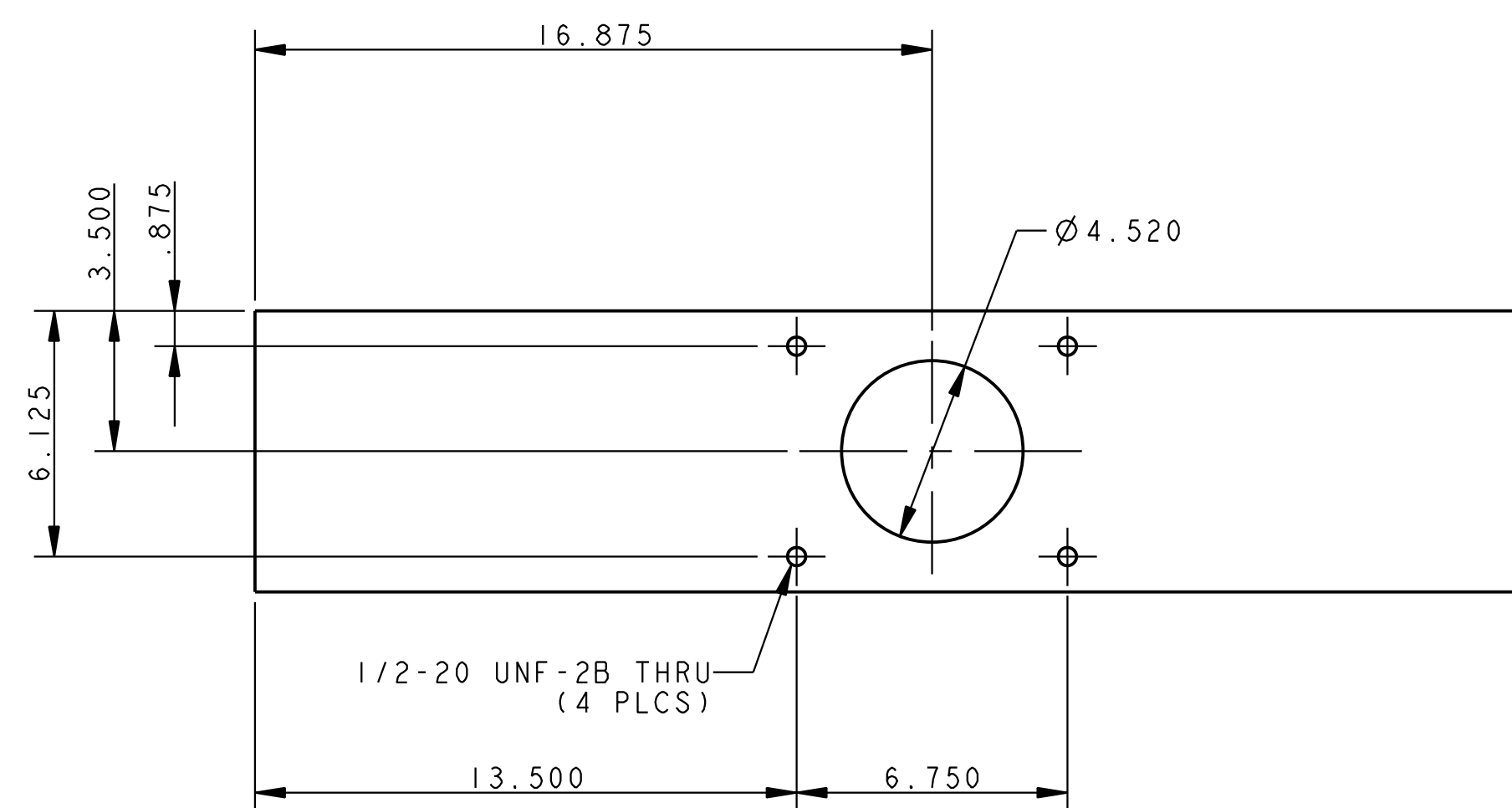
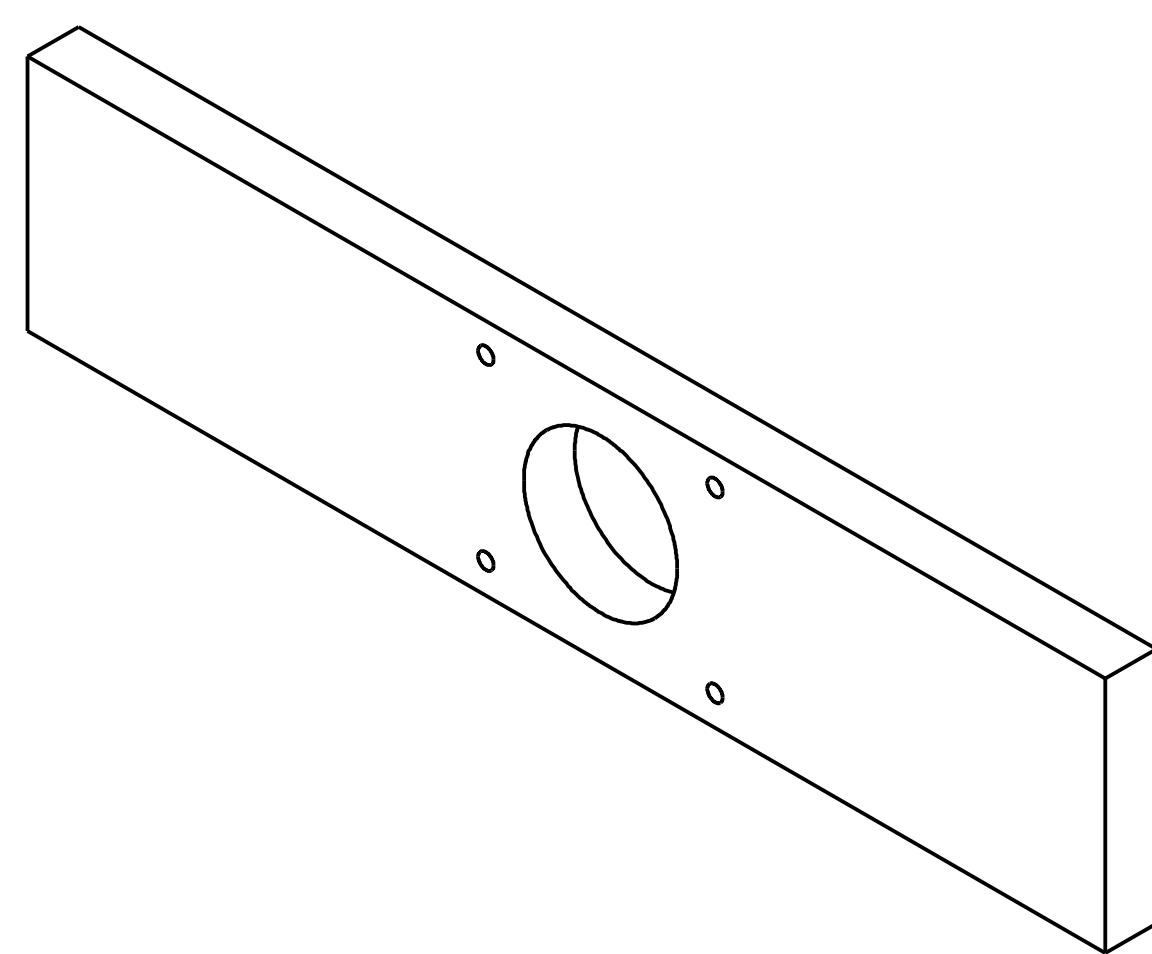
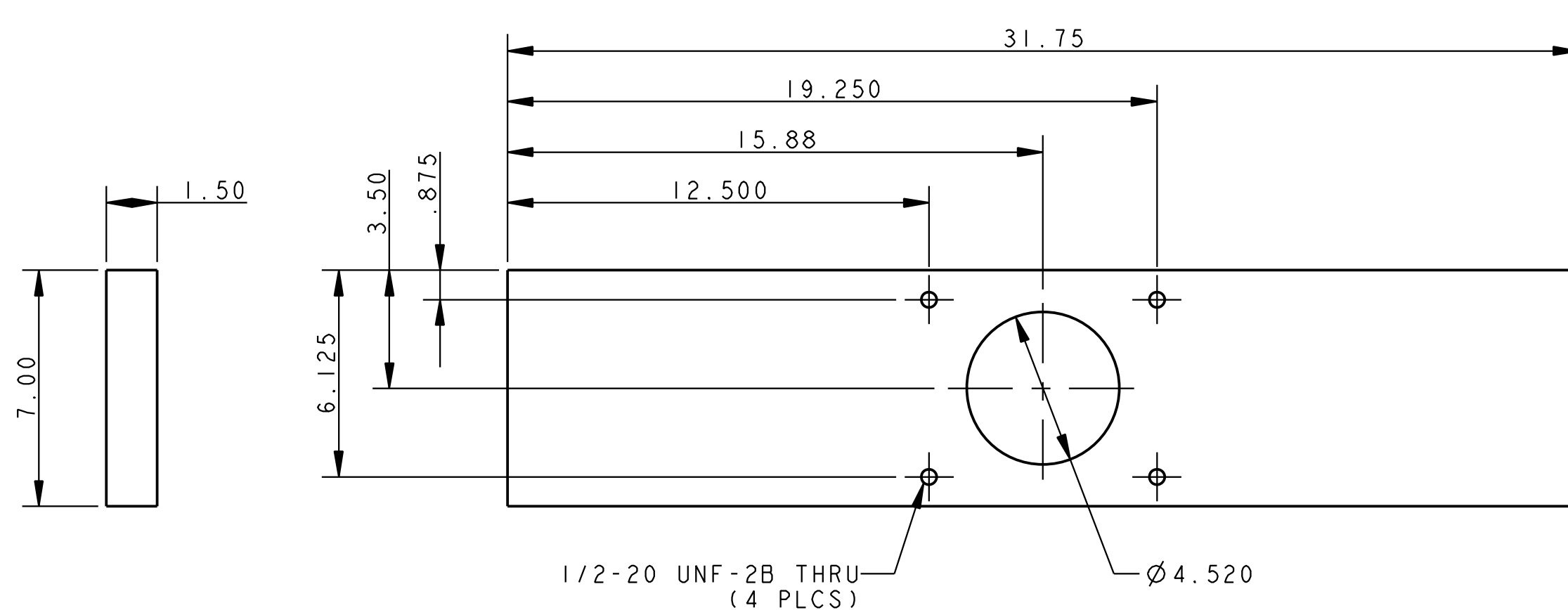
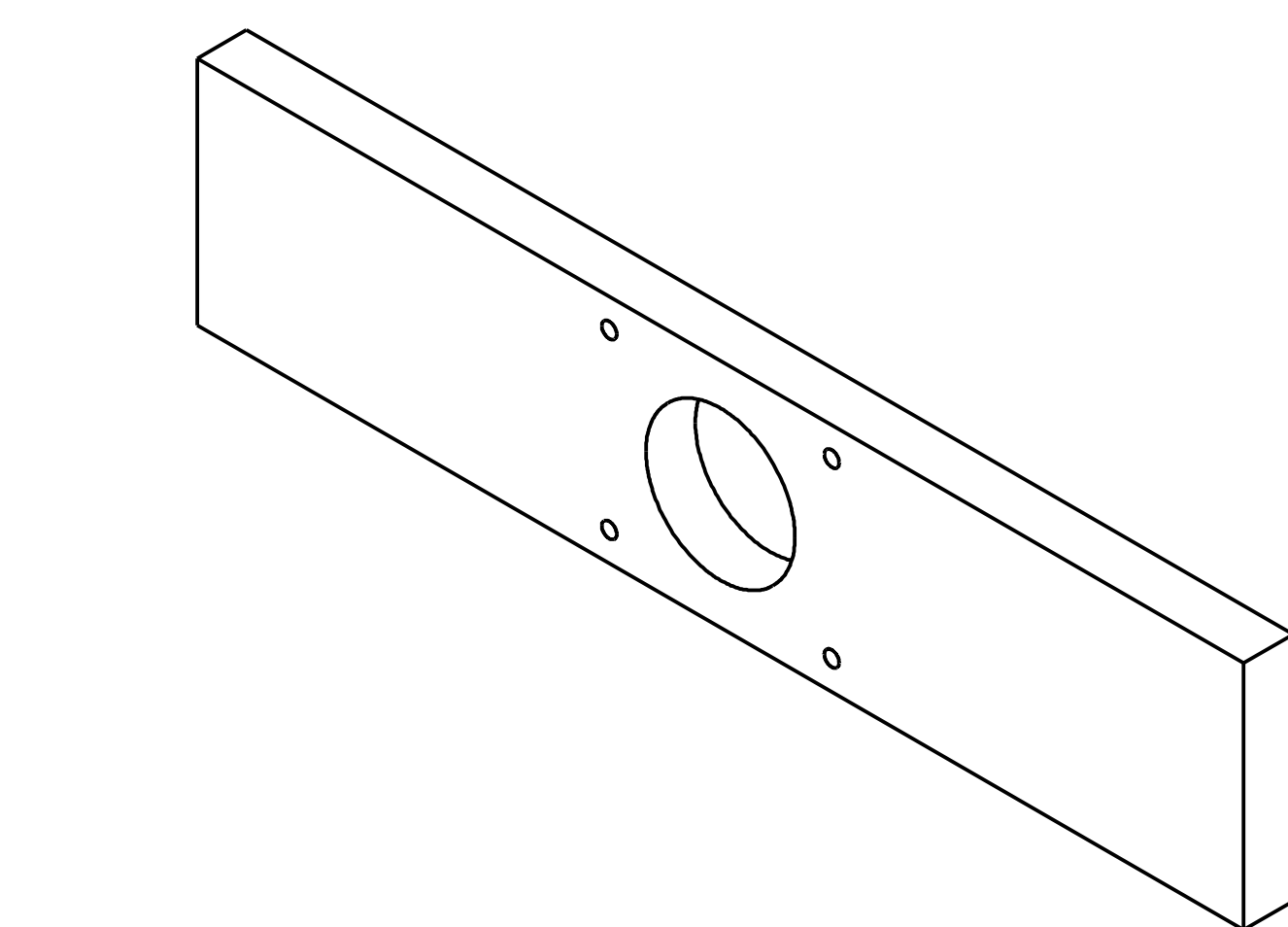
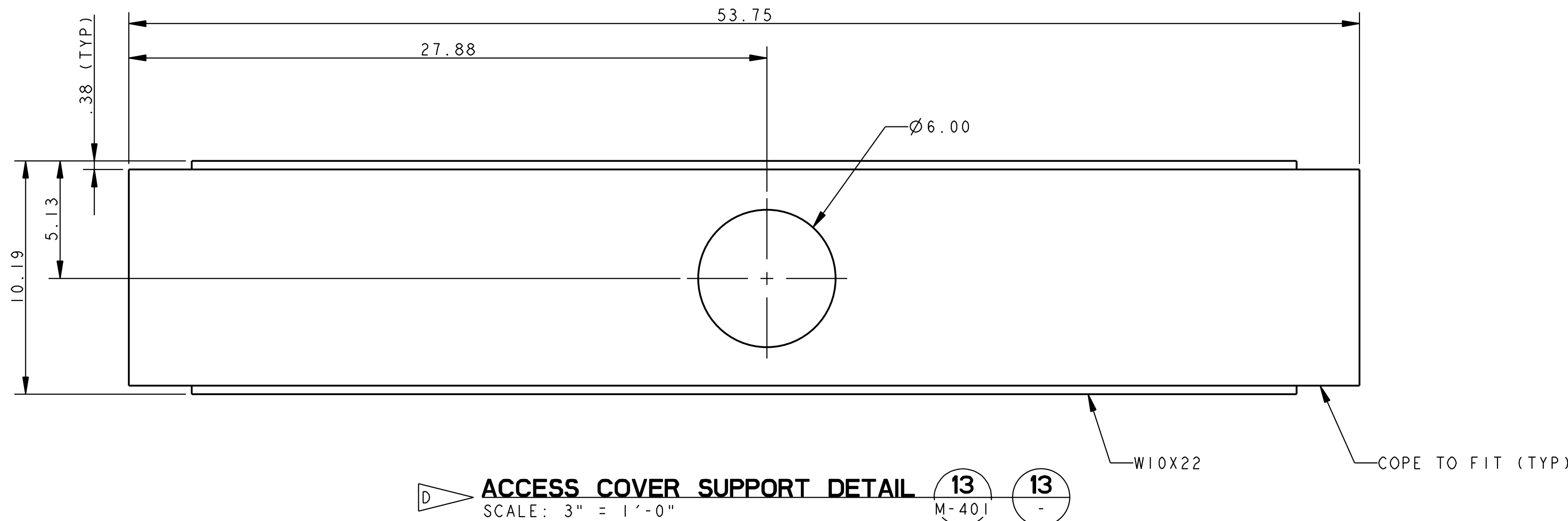
WHEN PRINTED FULL SIZE, THIS SHEET IS 34"x44"
THIS COMPUTER DRAWING WAS
CREATED IN PRO/ENGINEER AND
FILED UNDER THE DRAWING NUMBER

SPECIFIC NOTES:

- A. ALL EDGES AND CORNERS SHALL BE FREE FROM BURRS.
- B MATERIAL: STEEL PER ASTM A572 GRADE 50.
- C MATERIAL: STEEL PER ASTM A992 GRADE 50.
- D MATERIAL: 4" SCH 40 STEEL PIPE PER ASTM A500.
- E MATERIAL: SOLID ROUND ROD PER ASTM 4140.

| | | | | | |
|--------------------------------|------|--|---|--|-------------|
| SYM | ZONE | DESCRIPTION | | DATE | APPROVAL |
| | | <div style="text-align: center;">  </div> | | Reynolds, Smith and Hills, Inc. 115 Alma Blvd, Suite 101 Merritt Island, Florida 32953-1101 (321) 455-2012 (321) 455-3223 FAX www.rsandh.com | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, FLORIDA KENNEDY SPACE CENTER, FLORIDA | | |
| DRAWN: JOE D'AMICO | | 08/20/2013 | LAUNCH COMPLEX 39 | | |
| CHECKED: DAVID KELLER | | 08/20/2013 | VEHICLE ASSEMBLY BUILDING | | |
| SUBMITTED: ARCHIVING OF RECORD | | | MODIFY VEHICLE ASSEMBLY BUILDING | | |
| ROBERT BRUSS | | | HIGH BAY 3 FOR SLS | | |
| ST OF LICENSURE: FL | | | ELEVATOR PLATFORM LIFTING | | |
| LICENSURE NO: | | | LUG ASSEMBLY DETAILS - 1 | | |
| APPROVE: | | | FILE NO. | SIZE | DWG. NO. |
| STEVE MOORE | | | 302-6058-043 | E | 79K39965 |
| MIKE HARTNETT | | | PROJ. NO. PCN | 99000.5 | SHEET 24 OF |

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SPECIFIC NOTES:

A. ALL EDGES AND CORNERS SHALL BE FREE FROM BURRS.

B MATERIAL: STEEL PER ASTM A572 GRADE 50

6 MATERIAL: LIGA STEEL SHEET PER ASTM A10

| | | | | | |
|--------------------------------|------|---|---|--|-------------|
| SYM | ZONE | DESCRIPTION | | DATE | APPROVAL |
| | | REVISIONS  | | Reynolds, Smith and Hills, Inc. 115 Alma Blvd, Suite 101 Merritt Island, Florida 32953-4101 (321) 453-0212 (201) 455-0223 FAX www.rsandh.com | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER NASA KENNEDY SPACE CENTER, FLORIDA | | |
| DRAWN: JOE D'AMICO | | 5/8/20/2013 | LAUNCH COMPLEX 39 | | |
| CHECKED: DAVID KELLER | | 5/8/20/2013 | VEHICLE ASSEMBLY BUILDING | | |
| SUBMITTED: ARCHIVING OF RECORD | | | MODIFY VEHICLE ASSEMBLY BUILDING | | |
| ROBERT PRUSS | | | HIGH BAY 3 FOR SLS | | |
| ST OF LICENSE: FL | | | ELEVATOR PLATFORM LIFTING | | |
| LICENSE NO. FLORIDA | | | LUG ASSEMBLY DETAILS - 2 | | |
| APPROVED: | | | FILE NO. | SIZE | DWG. NO. |
| STEVE MOORE | | | 302-6058-043 | E | 79K39665 |
| MIKE HARTNETT | | | PROJ. NO. PCN | 99000.5 | SHEET 25 OF |

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ABBREVIATIONS

| | |
|---------|---|
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AIC | AMPERAGE INTERRUPTING CAPACITIES |
| C, COND | CONDUIT |
| CFP | CUSTOMER FACE PLATE |
| CID1 | CLASS I, DIVISION 1 |
| CID2 | CLASS I, DIVISION 2 |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| CORR | CORRIDOR |
| DR | DROP RESISTANT |
| ELEV | ELEVATOR |
| EST | ESTIMATED |
| FL | FLOOR |
| GEN | GENERAL |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | GROUND |
| HOA | HAND-OFF-AUTOMATIC |
| HOR | HAND-OFF-REMOTE |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING |
| IAW | IN ACCORDANCE WITH |
| KVA | KILO-VOLT AMPERE |
| LED | LIGHT EMITTING DIODE |
| LC | LIGHTING CONTACTOR |
| LCC | LAUNCH CONTROL CENTER |
| LP | LIGHTING PANEL |
| LGTS | LIGHTS |
| LTG | LIGHTING |
| LVL | LEVEL |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MDP | MAIN DISTRIBUTION PANEL |
| MIC | MICROPHONE |
| MLO | MAIN LUG ONLY |
| NIC | NOT IN CONTRACT |
| PLAT | PLATFORM |
| RCP | RECEPTACLE PANEL |
| RECPT | RECEPTACLE |
| RGS | RIGID GALVANIZED STEEL |
| RM | ROOM |
| SOOW | SERVICE CORD, OIL RESISTANT OUTSIDE JACKET AND INSIDE INSULATION, WEATHER/WATER RESISTANT |
| SP | SYSTEMS PANEL |
| SPD | SURGE PROTECTION DEVICE |
| SS | STAINLESS STEEL |
| TC | TRAY CABLE |
| TOG | TOP OF GRATING |
| TOS | TOP OF STEEL |
| TWR | TOWER |
| UL | UNDERWRITERS LABORATORIES |
| W/H | WITH HARDWARE |

SYMBOLS LEGEND

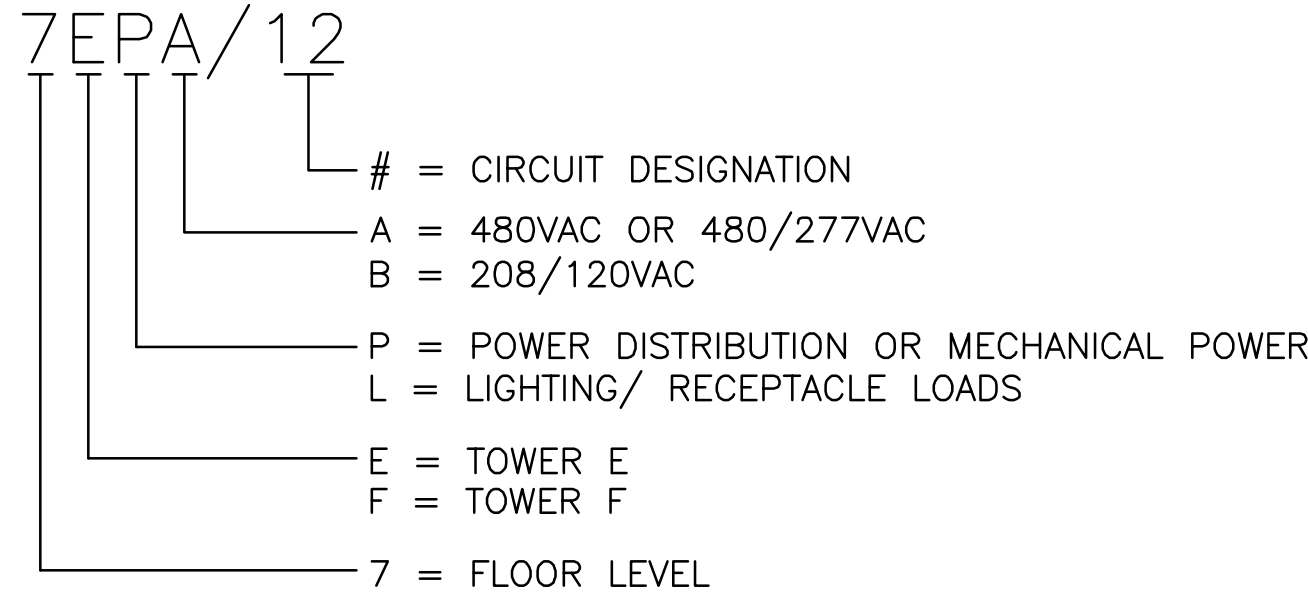
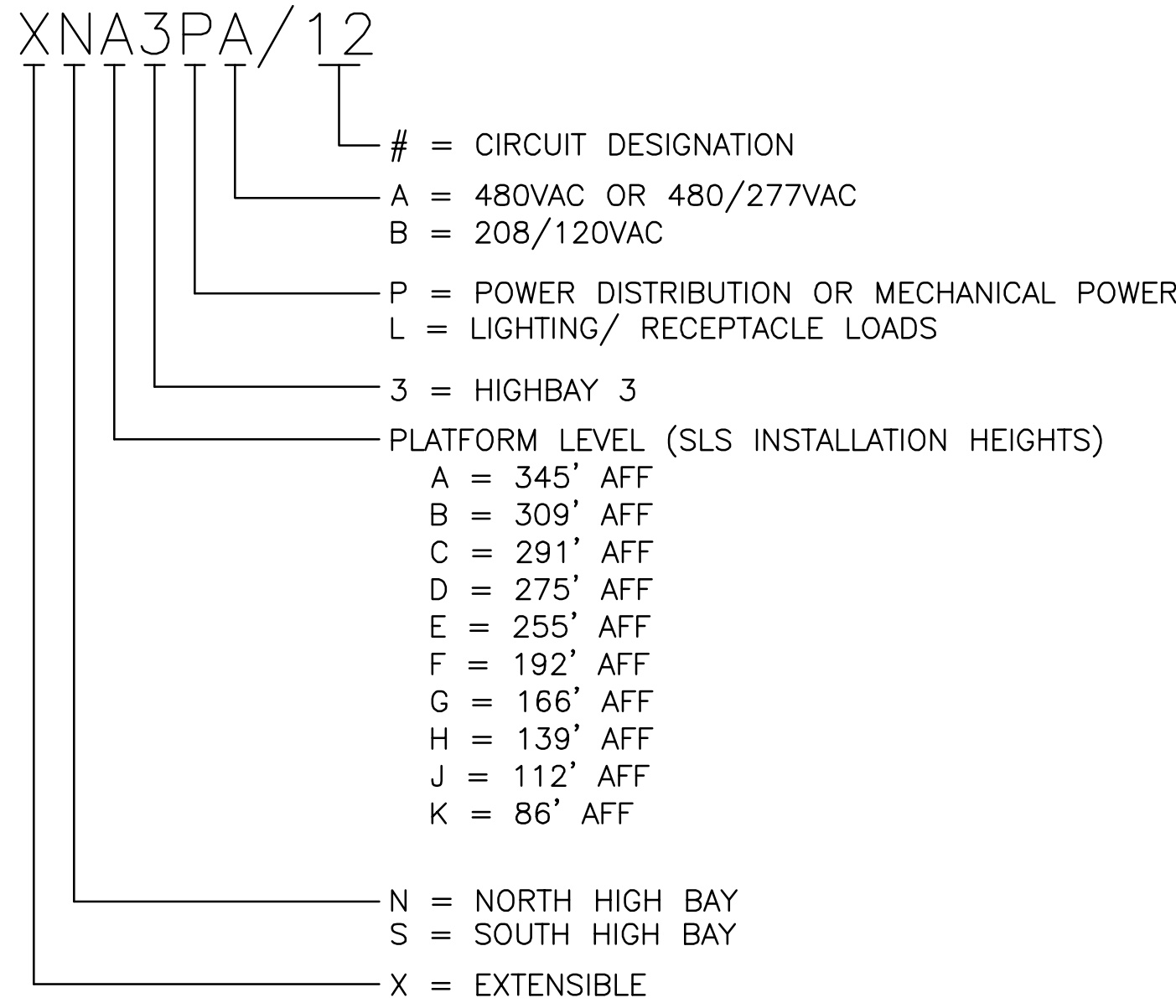
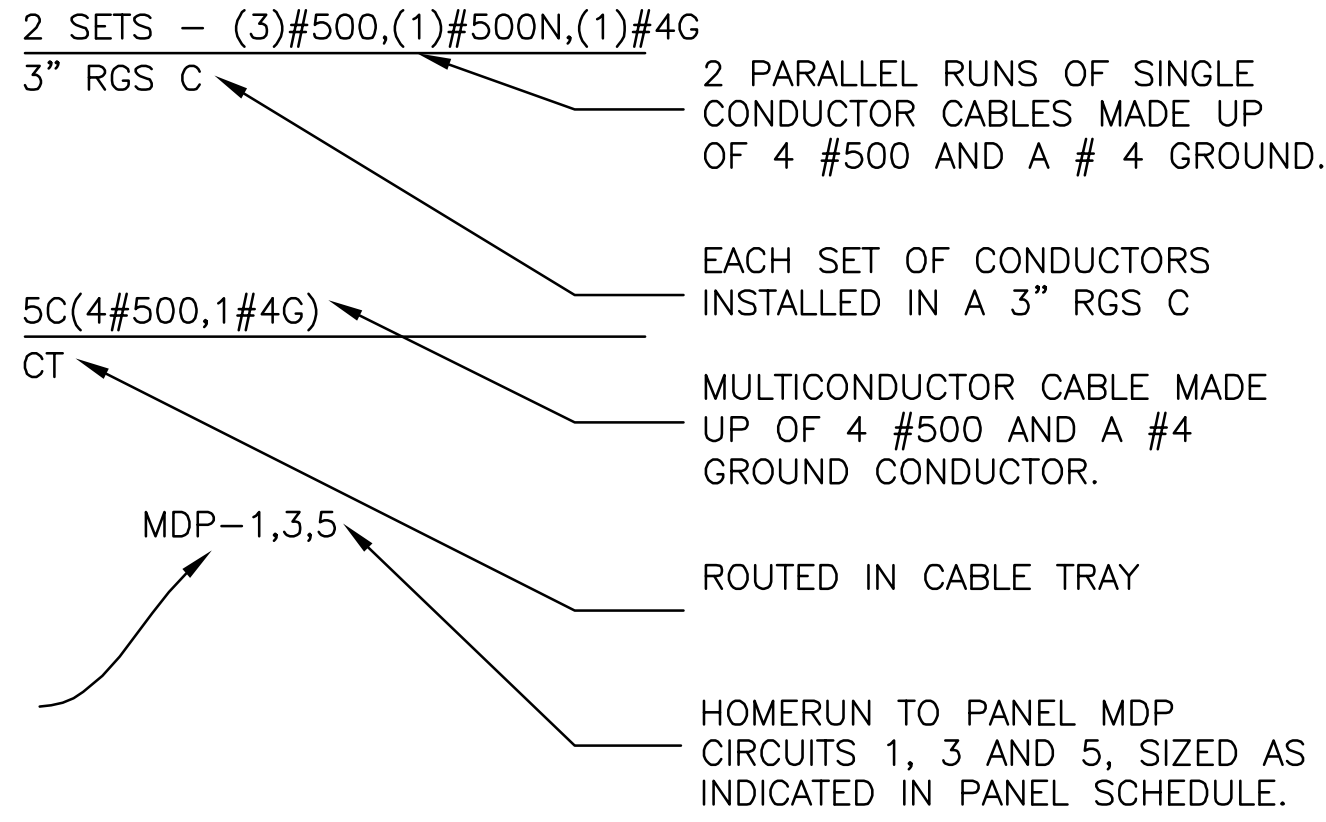
| | |
|--|--|
| | DUPLEX RECEPTACLE, 120V, 20A, NEMA 5--20R |
| | LOCKING RECEPTACLE, 120V, 20A, 2POLE, 3W, NEMA L5--20R |
| | SPECIAL PURPOSE RECEPTACLE, TYPE AS INDICATED |
| | LINEAR FLUORESCENT LIGHTING (X = FIXTURE TYPE, REFERENCE LIGHTING DETAILS) |
| | CEILING OCCUPANCY SENSOR |
| | PARABOLIC LINEAR FLUORESCENT LIGHTING, EXISTING |
| | SPOT FLOOD LIGHTING, EXISTING |
| | FLEXIBLE CORD PLUG CONNECTION |
| | WALL MOUNTED OCCUPANCY SENSOR |

| | |
|--|------------------------------------|
| | HEAVY DUTY DISCONNECT SWITCH |
| | HEAVY DUTY FUSED DISCONNECT SWITCH |
| | OR JUNCTION BOX |

LINE TYPE LEGEND

| | |
|--|------------------------------------|
| | EXPOSED, POWER CIRCUITING |
| | LOW VOLTAGE (12V) POWER CIRCUITING |

CIRCUITING LEGEND



GENERAL NOTES

- ALL ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, AND OTHER ENCLOSURES OF ELECTRICAL EQUIPMENT, REQUIRING ACCESS FOR MAINTENANCE, TESTING, AND/OR TROUBLESHOOTING, SHALL BE LABELED WITH ARC FLASH WARNING LABELS. ARC FLASH CALCULATIONS SHALL BE PERFORMED FOR EACH OF THE ITEMS LISTED ABOVE. ARC FLASH LABELING SHALL IDENTIFY PROPER PPE AND CLEARANCES REQUIRED AND BE AFFIXED TO THE EQUIPMENT IAW THE LATEST EDITION OF NFPA 70E.
- CONSTRUCTION OF THE ELECTRICAL SYSTEMS SHALL BE PERFORMED IAW WITH ALL LOCAL AND NATIONAL CODES, INCLUDING THE LATEST EDITIONS OF, BUT NOT LIMITED TO NFPA 70, NFPA 70E, NFPA 780 AND NFPA 497.
- ALL ELECTRICAL DISCONNECTS, BREAKERS, OR ANY OTHER MEANS OF ISOLATING POWER SOURCES FROM THEIR LOADS, SHALL BE CAPABLE OF BEING LOCKED WITH A PAD LOCK. ITEMS SUCH AS BREAKER HANDLES UNABLE TO BE LOCKED DIRECTLY SHALL BE MANUFACTURED AND INSTALLED IN A MANNER IN WHICH AN OSHA APPROVED LOCKOUT/TAGOUT LOCKING MECHANISM IN CONJUNCTION WITH A PADLOCK WILL RENDER THEM INOPERATIVE.
- POWER DISTRIBUTION EQUIPMENT LOCATION AND SCHEDULING ARE BASED ON ELECTRICAL AS-BUILT DRAWINGS 39K6150009 (LAUNCH COMPLEX 39 VAB TOWER E SECONDARY VOLTAGE POWER DISTRIBUTION SYSTEM) AND 39K6150010 (LAUNCH COMPLEX 39 SECONDARY VOLTAGE POWER DISTRIBUTION SYSTEM VAB - TOWER F).

GENERAL DEMOLITION NOTES

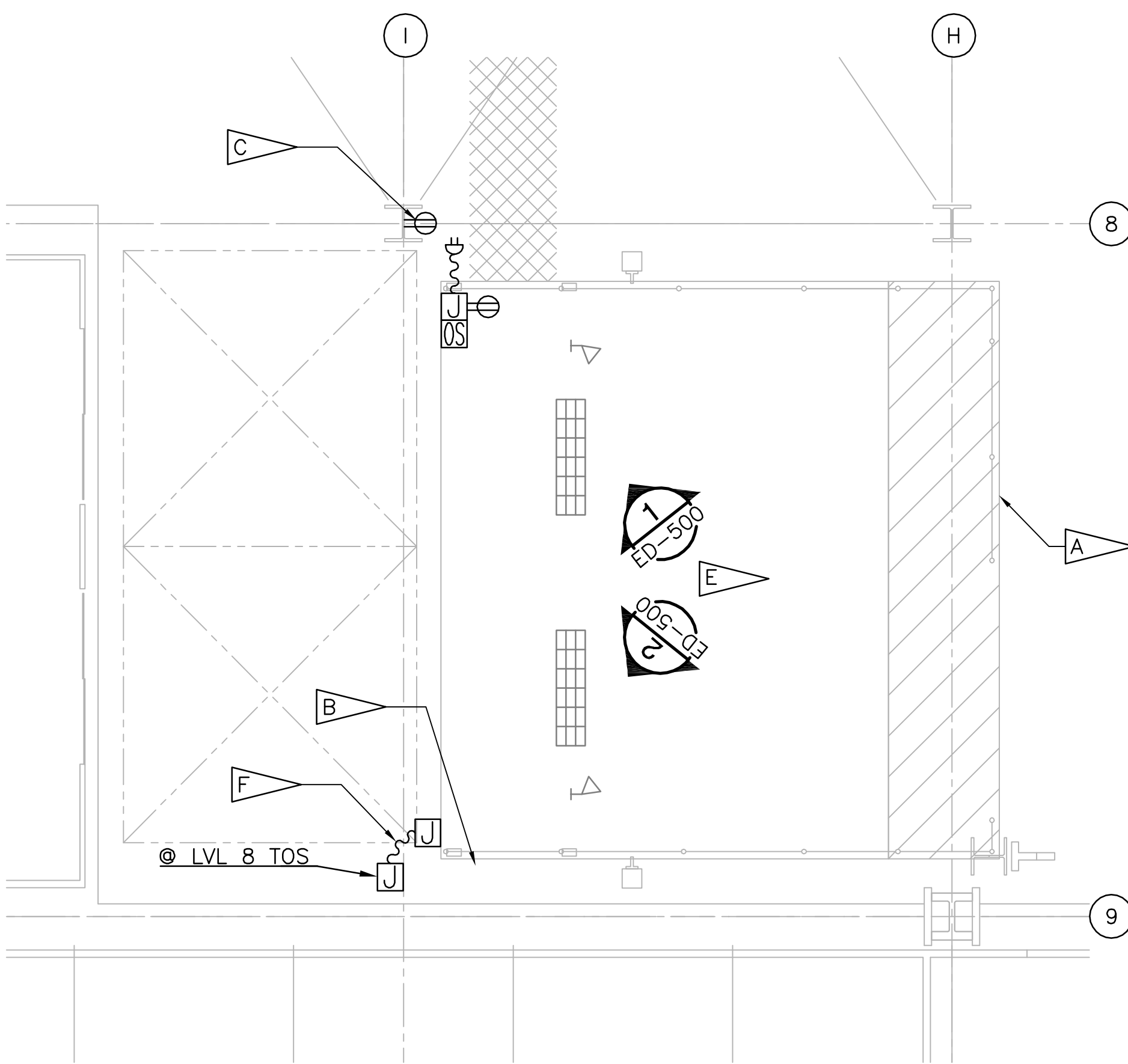
- THE DEMOLITION PLAN IS INTENDED TO SHOW THE GENERAL SCOPE OF WORK AND DOES NOT SHOW EVERY DEVICE, BOX, CONDUIT, PANEL, ETC. TO BE REMOVED. FIELD VERIFY OTHER ELECTRICAL SERVICE THAT MAY BE ENCOUNTERED DURING DEMOLITION AND REMOVE THESE ITEMS AS REQUIRED.
- REMOVE EXISTING LIGHTING FIXTURES, LIGHTING CONTROLS, POWER RECEPTACLES AND CONTROLS AS INDICATED ON ELECTRICAL DEMOLITION DRAWINGS. REMOVE ASSOCIATED BRANCH CIRCUITS AND CONDUITS BACK TO THE POINT OF ORIGIN.
- QUANTITIES AND LOCATIONS OF EQUIPMENT AND DEVICES SHOWN ARE BASED ON AS-BUILT DRAWINGS DATED JANUARY 1967 AND INFORMATION GATHERED DURING SITE VISITS. CONTRACTOR TO FIELD VERIFY.
- COORDINATE ELECTRICAL DEMOLITION WORK WITH MECHANICAL, STRUCTURAL AND ARCHITECTURAL.

WHEN PRINTED FULL SIZE, THIS SHEET IS 34"x44"
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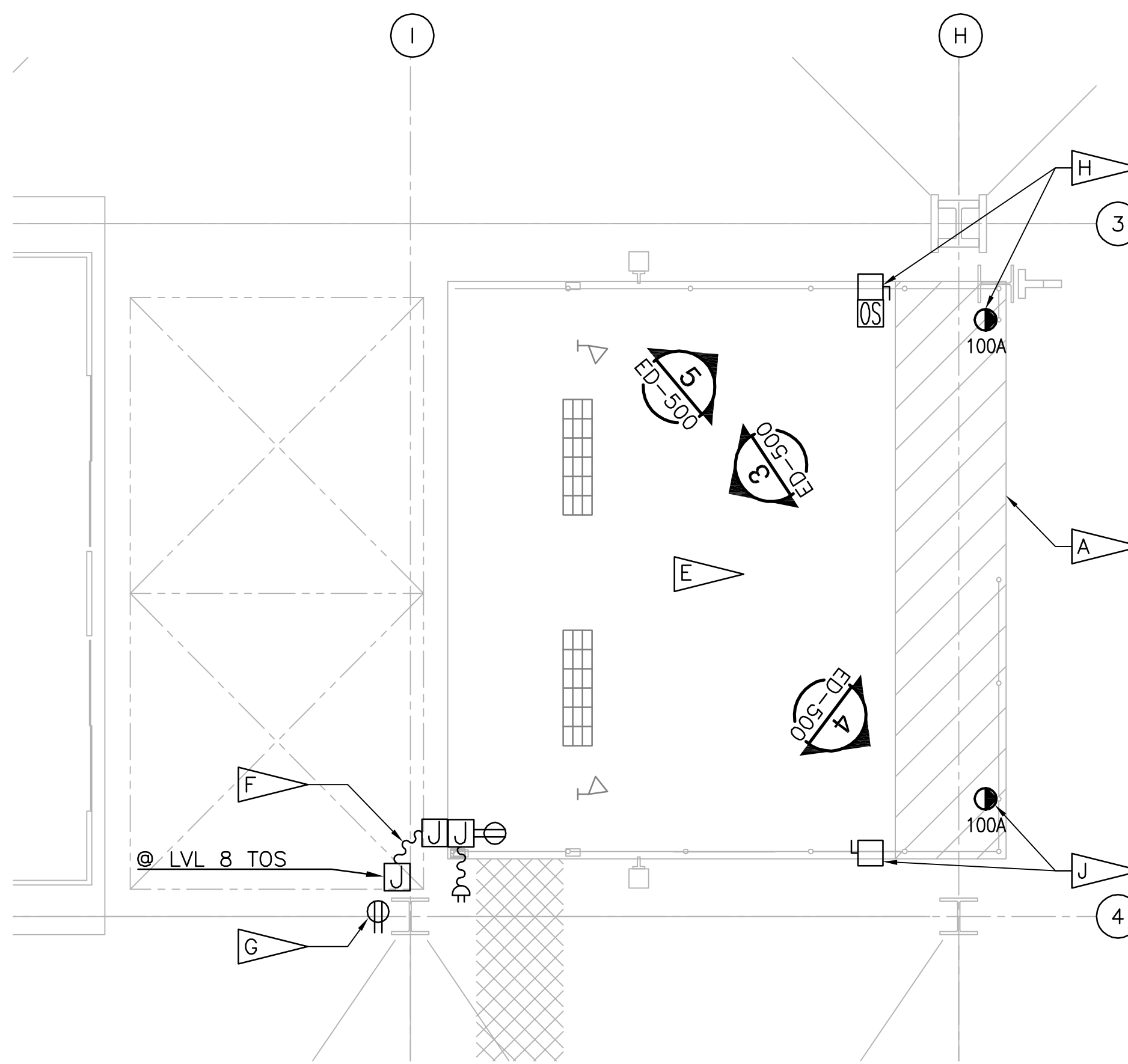
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| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|-------------------------------|--------------|-------------|---|----------|
| REVISIONS | | | | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | |
| DRAWN: JOSEPH HAUER | | 06-20-2013 | JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA | |
| CHECKED: DANIEL VIGANT | | 06-20-2013 | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING | |
| SUBMITTED ARCHIVING OF RECORD | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS | |
| KEVIN HARRIS | | | ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS | |
| ST OF LICENSE: FL | | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERCSMAR | | | | |
| MIKE HARTNETT | | | | |
| FILE NO. | 302-6058-043 | SIZE | DWG. NO. | REV |
| PROJ. NO. | PCN 99000.5 | | 79K39665 | |
| | | SHEET | 26 | OF |

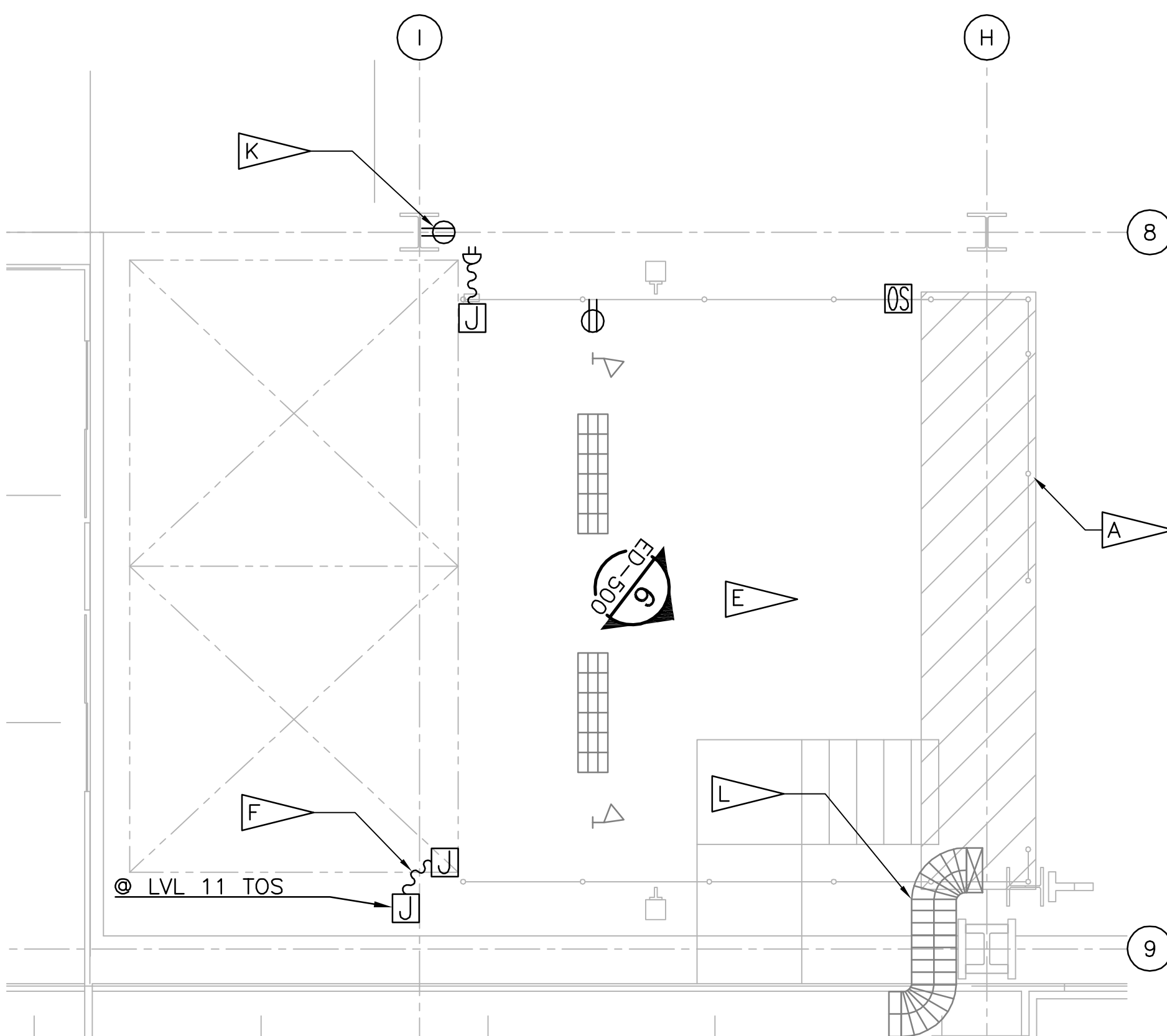
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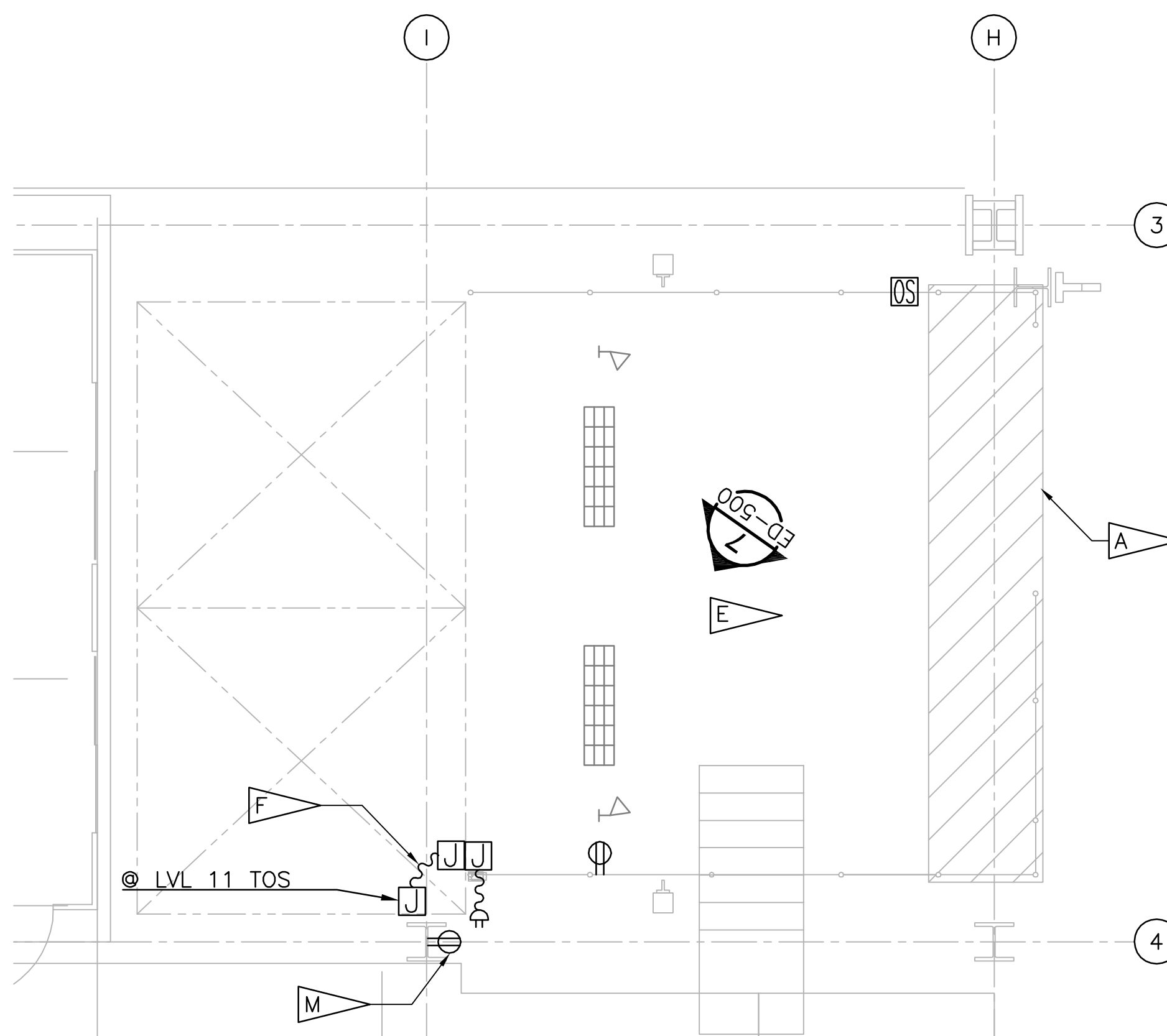
DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 7 - TOWER E
SCALE: 1/4" = 1'-0"



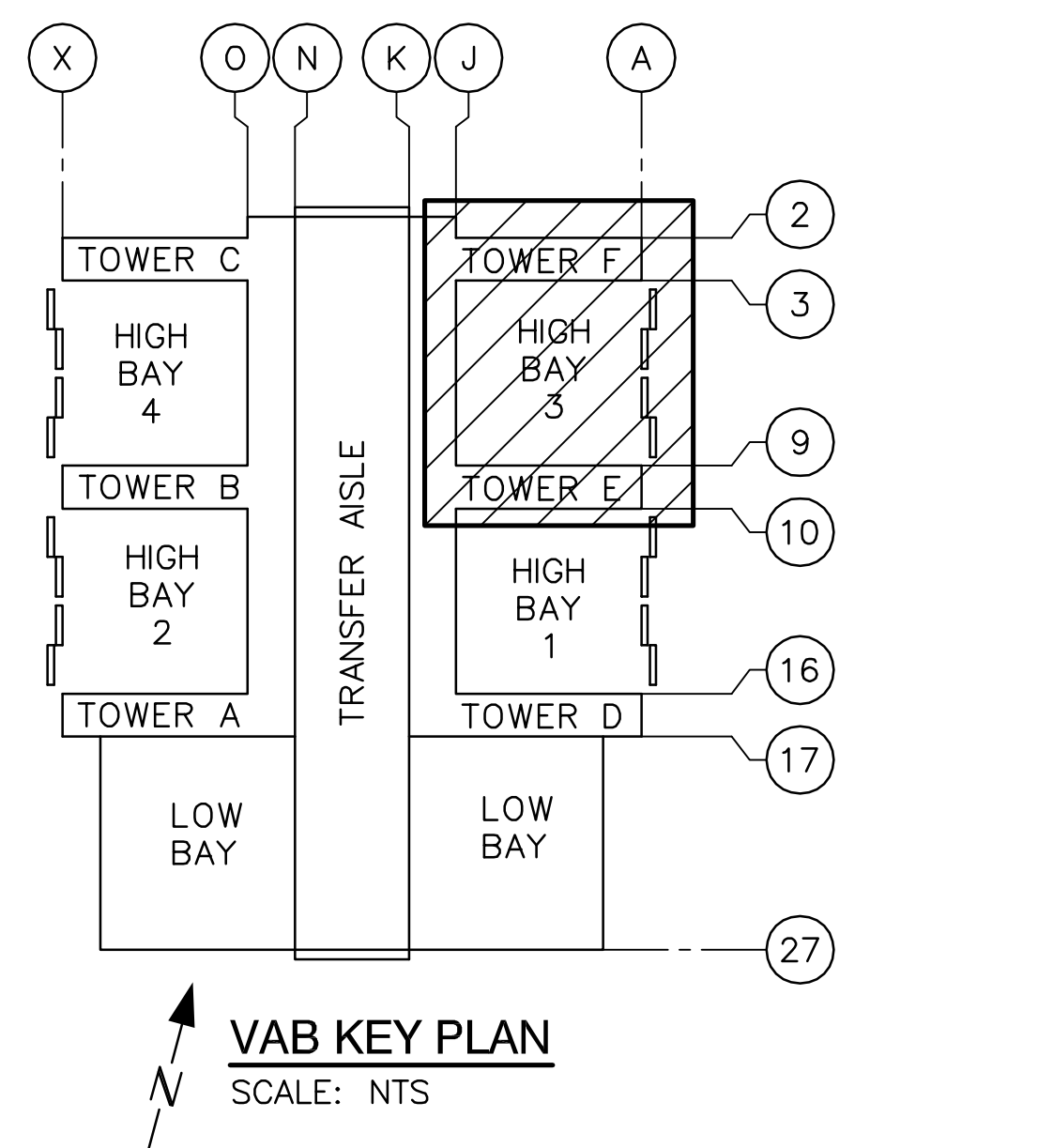
DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 7 - TOWER F
SCALE: 1/4" = 1'-0"



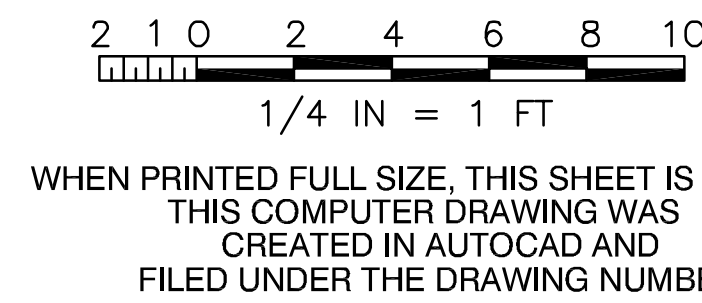
DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 11 - TOWER E
SCALE: 1/4" = 1'-0"




DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 11 - TOWER F
SCALE: 1/4" = 1'-0"

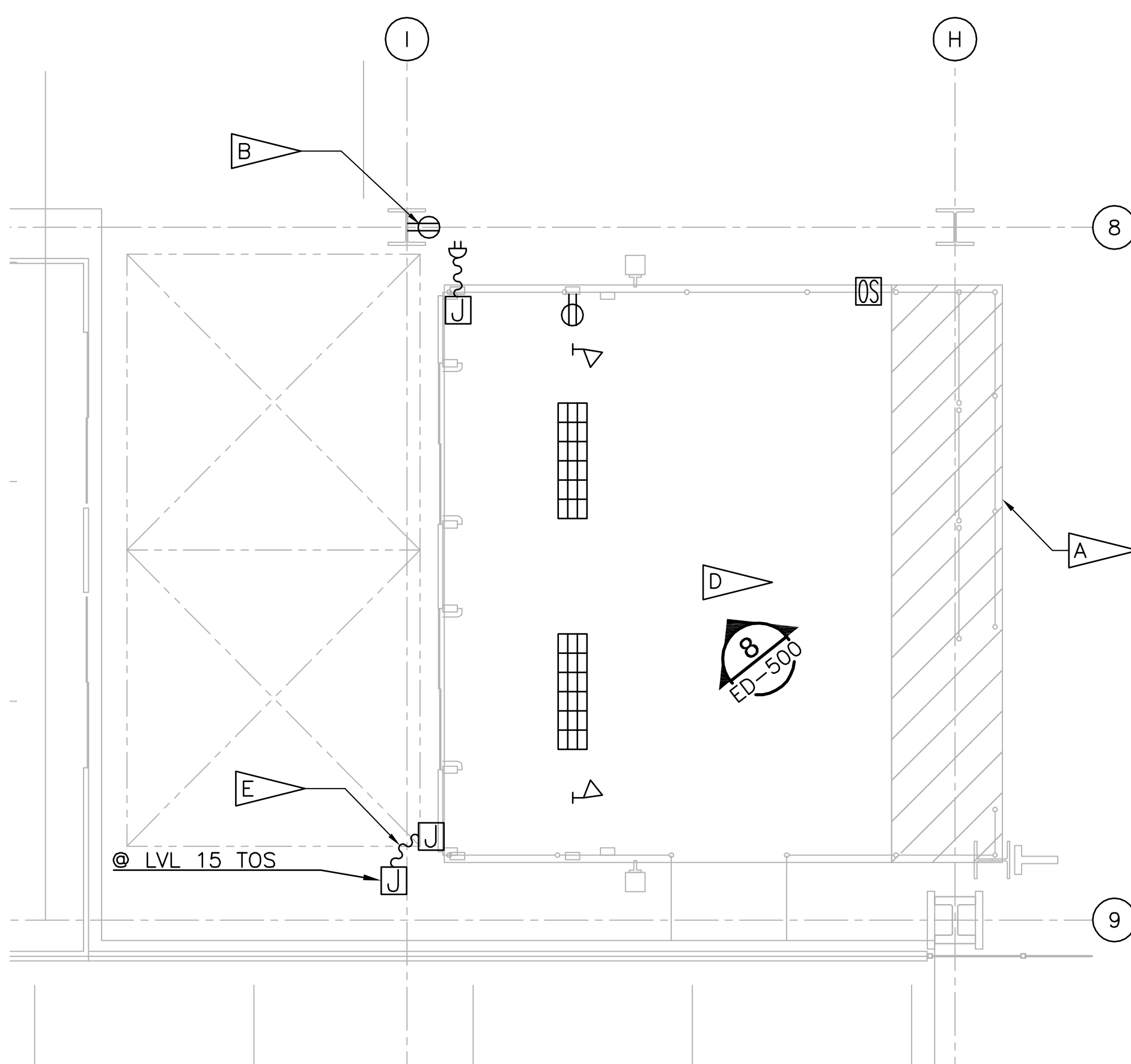


VAB KEY PLAN
SCALE: NTS

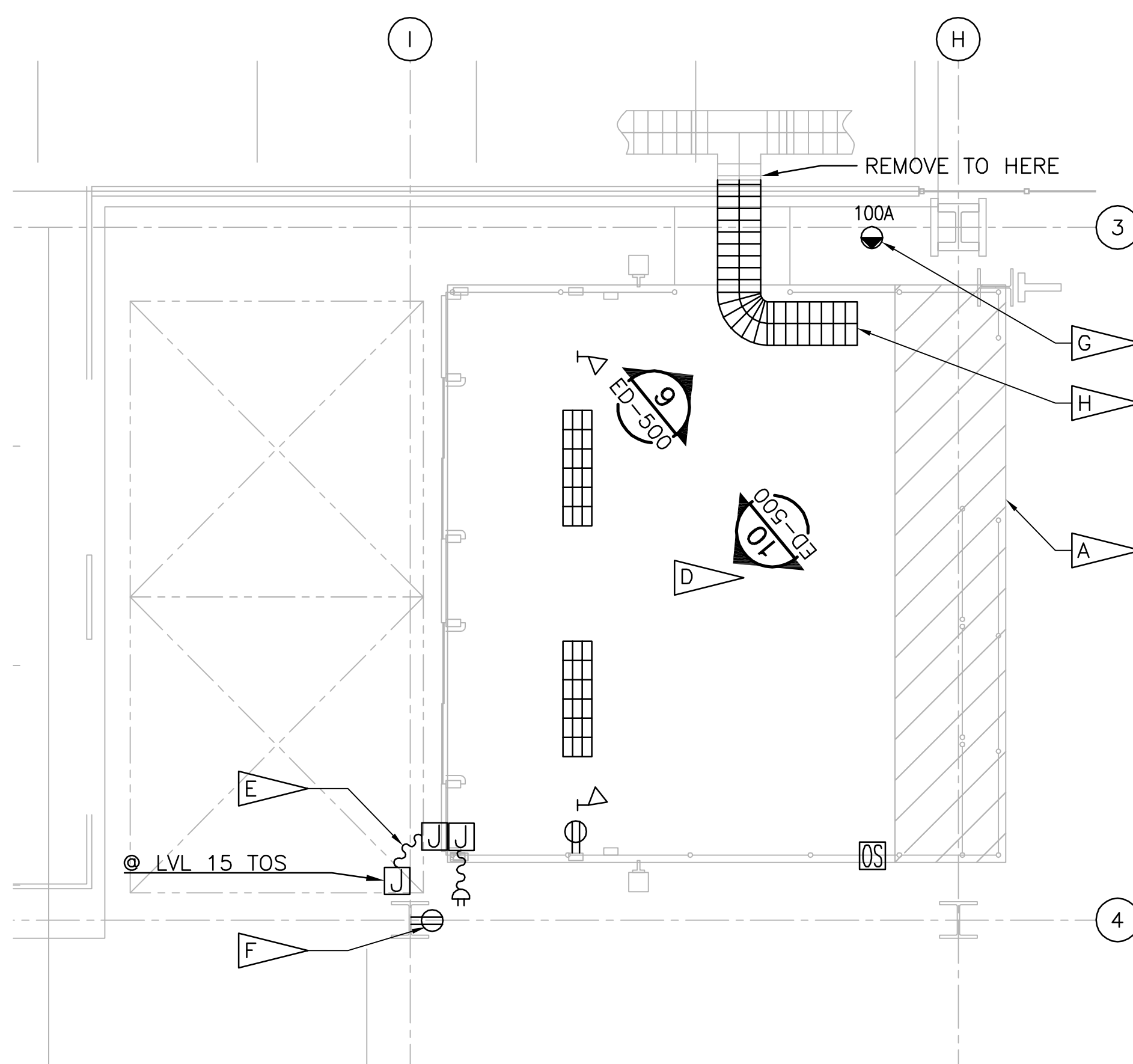


| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
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| SIGNATURES | | DATE | | |
| DRAWN: JOSEPH HAUER | | 08-20-2013 | | |
| CHECKED: DANIEL VICENT | | 08-20-2013 | | |
| SUBMITTED: ARDREHO OF RECORD | | | | |
| KEVIN HARRIS | | | | |
| ST OF LICENSE: FL | | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERCSMAR | | | | |
| MIKE HARTNETT | | | | |
| | | <p>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA</p> <p>LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING</p> <p>MODIFY VEHICLE ASSEMBLY BUILDING HIGH-BAY 3 FOR SLS – ELEVATOR LANDINGS – ELEVATOR LANDINGS – ELECTRICAL DEMOLITION PLANS</p> | | |
| | | FILE NO. | SIZE | DWG. NO. |
| | | 302-6058-043 | E | 79K39665 |
| | | PROJ. NO. | PCN | 99000.5 |
| | | SHEET | | 27 OF |

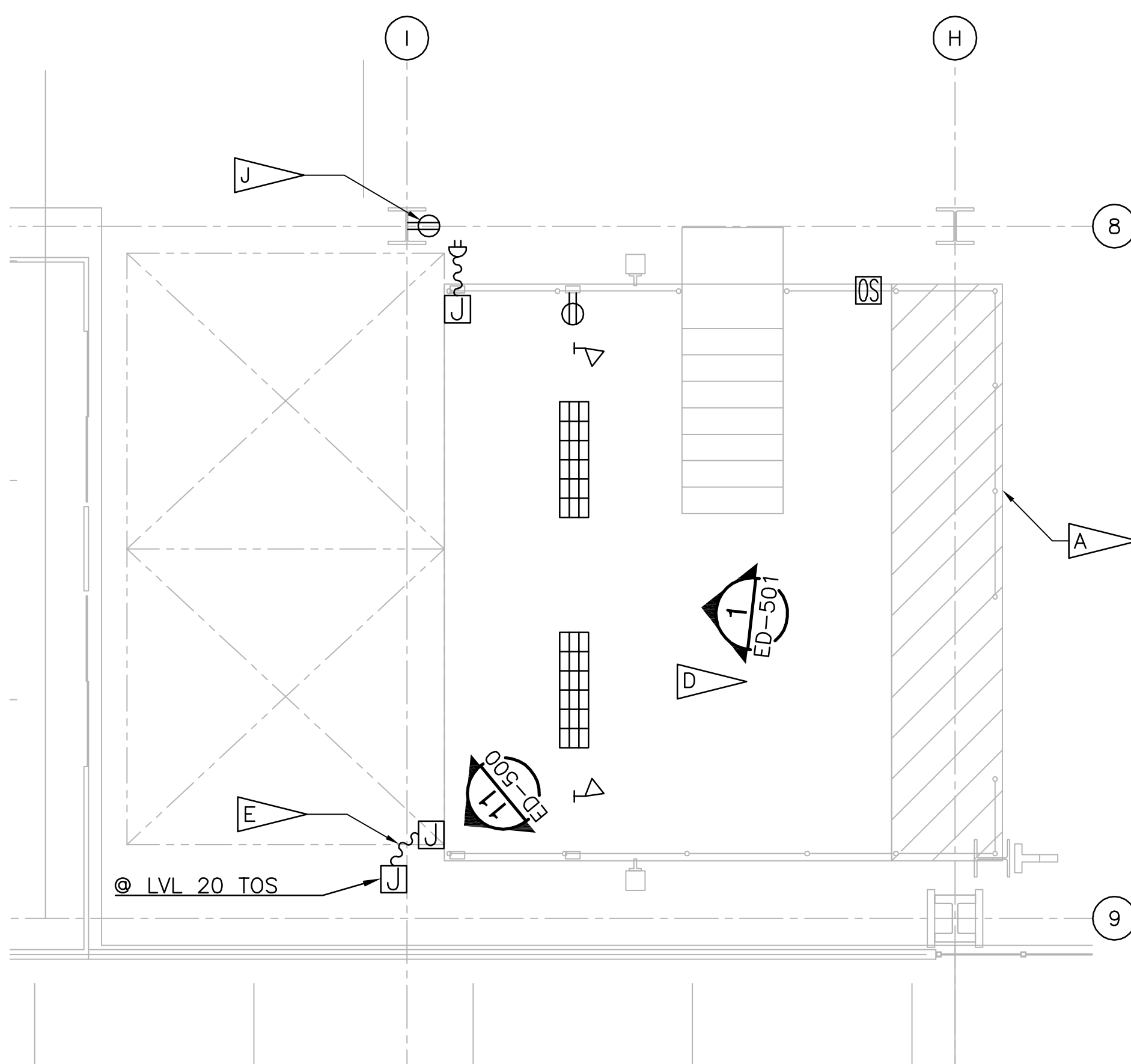
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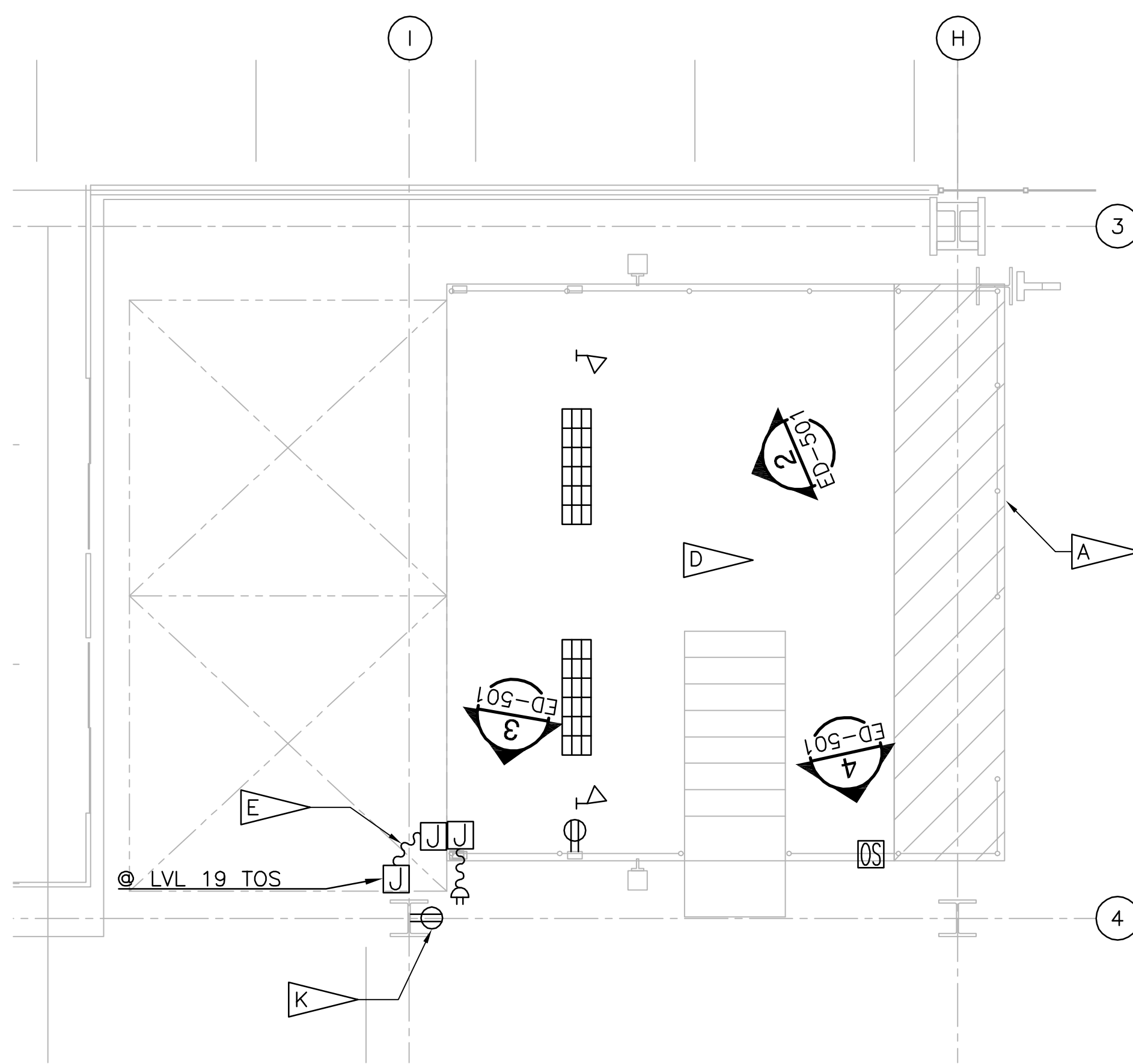
DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 14 - TOWER E
SCALE: 1/4" = 1'-0"



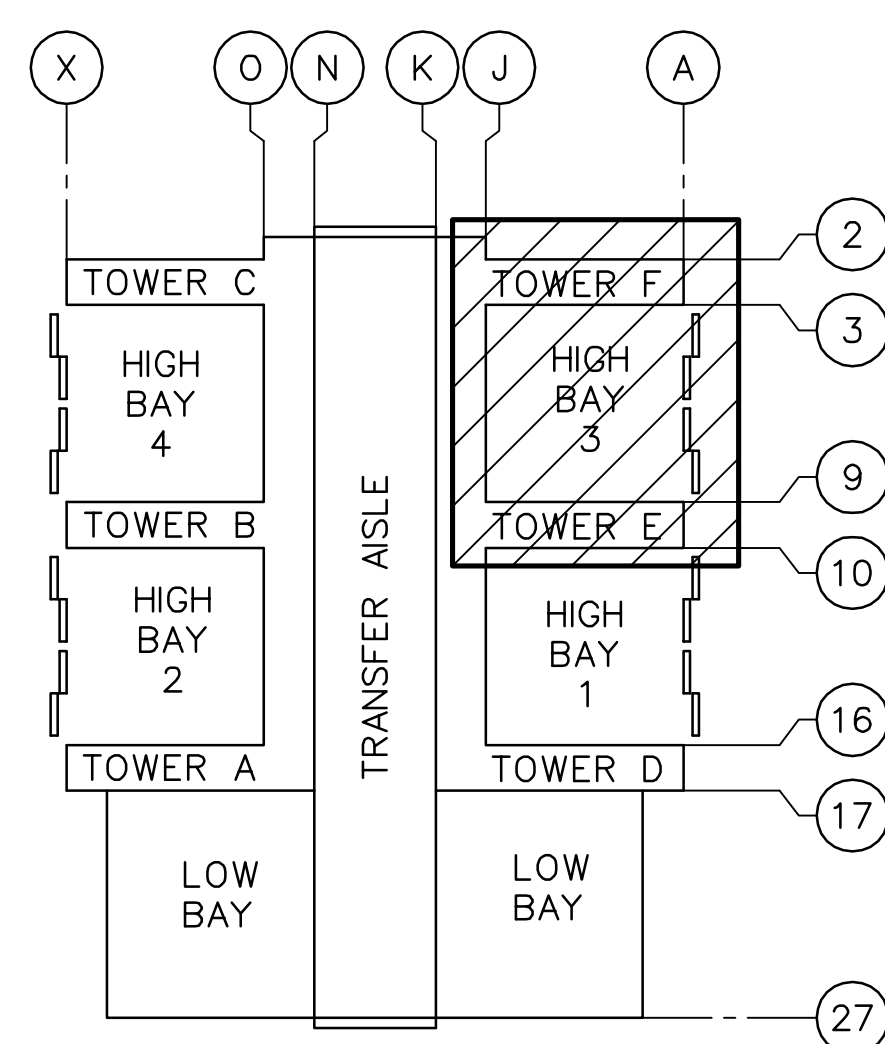
DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 14 - TOWER F
SCALE: 1/4" = 1'-0"




























DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 19 - TOWER E
SCALE: 1/4" = 1'-0"



DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 19 - TOWER F
SCALE: 1/4" = 1'-0"



VAB KEY PLAN
SCALE: NTS

| | | | | |
|--------------------------------|------|---|------|----------|
| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
| REVISIONS | | | | |
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| SIGNATURES | | DATE | | |
| DRAWN: JOSEPH HAUER | | 08-20-2013 | | |
| CHECKED: DANIEL VICENT | | 08-20-2013 | | |
| SUBMITTED: ARCHIVING OF RECORD | | | | |
| KEVIN HARRIS | | | | |
| ST OF LICENSE: FL | | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERCSMAR | | | | |
| MIKE HARTNETT | | | | |
| | | <div>  <div> Reynolds, Smith and Hills, Inc. 115 Alma Blvd, Suite 101 Meritt Island, Florida 32953-4101 (321) 455-0212 (321) 455-0223 FAX www.rsandh.com </div> </div> | | |
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| | | <div>  <div> Reynolds, Smith and Hills, Inc. 115 Alma Blvd, Suite 101 Meritt Island, Florida 32953-4101 (321) 455-0212 (321) 455-0223 FAX www.rsandh.com </div> </div> | | |
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| | | <div> </div> | | |

2 1 0 2 4 6 8 10
1/4 IN = 1 FT

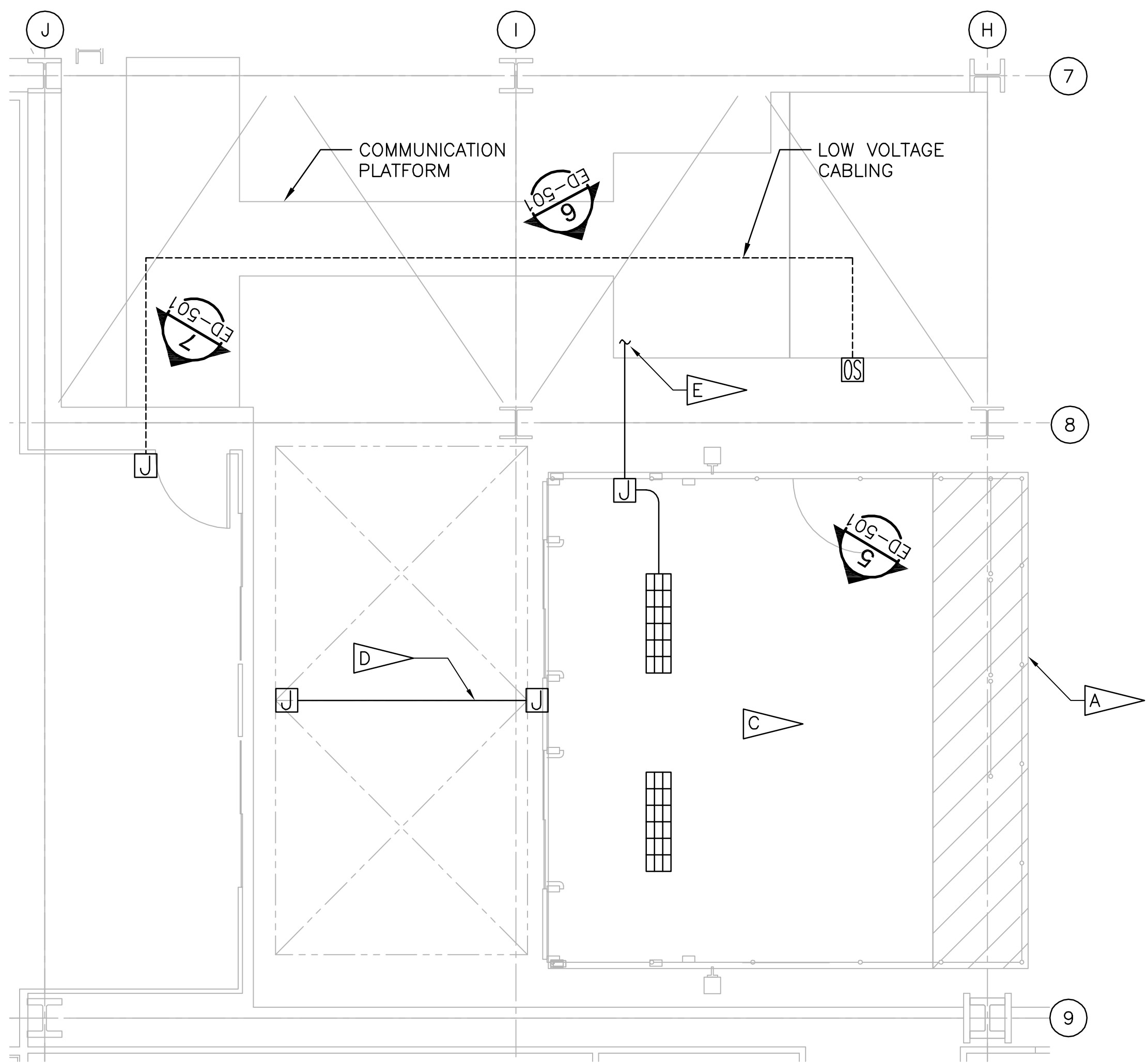
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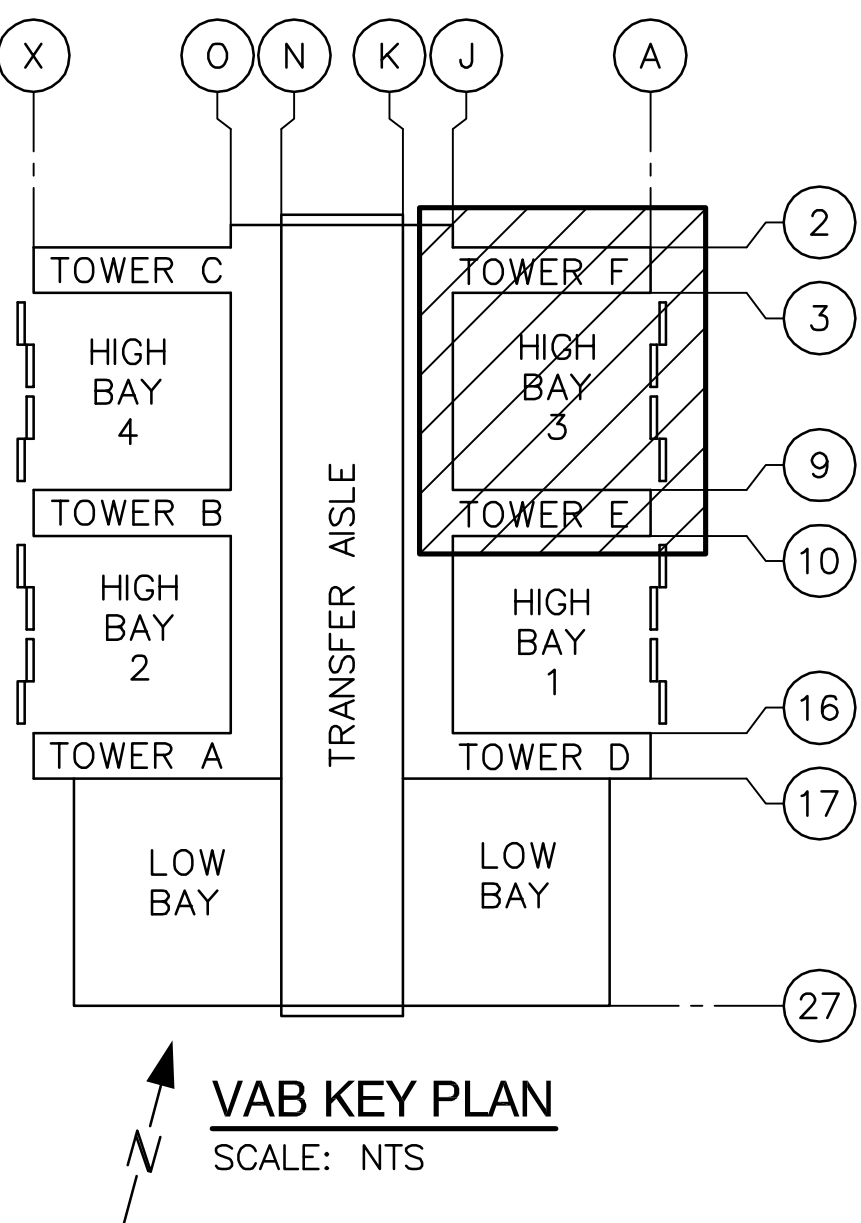
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SPECIFIC NOTES:

- A. EXISTING AREA OF PLATFORM TO BE REMOVED.
- B. EXISTING PLATFORM THIS SHEET HAS AN OCCUPANCY SENSOR THAT IS SUPPLIED FROM POWER PACK WATTSTOPPER #B120E-P CONNECTED AT JUNCTION BOX NEAR ELEVATOR FRONT LOBBY. LOW VOLTAGE CABLING EXTENDS FROM POWER PACK TO OCCUPANCY SENSOR, CABLE TIED TO HANDRAILS, CONDUITS AND/OR STRUCTURAL MEMBERS.
- C. CONTRACTOR TO REMOVE FROM THIS PLATFORM ALL EXISTING LIGHTING, LIGHTING CONTROLS, AND THEIR ASSOCIATED RACEWAYS, JUNCTION BOXES AND CABLING IN THEIR ENTIRETY.
- D. CONTRACTOR TO DISCONNECT ELEVATOR CONTROL CABLING ROUTING TO ELEVATOR PLATFORM FROM HARD-PIPED CONNECTION TO ELEVATOR FRONT LOBBY WIREWAY.
- E. CIRCUITING EXTEND TO EXISTING COMMUNICATIONS PLATFORM LOCATED ON LEVEL 10, TOWER E. REMOVE CONDUIT AND CABLING TO NEAREST JUNCTION BEYOND ELEVATOR PLATFORM.



DEMOLITION PLAN - ELEVATOR LANDING - LEVEL 10 - TOWER E
SCALE: 1/4" = 1'-0"



VAB KEY PLAN
SCALE: NTS

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| CHECKED: DANIEL VIGANT | | 08-20-2013 | LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING | |
| SUBMITTED ARCHIVING OF RECORD | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS | |
| KEVIN HARRIS | | | ELEVATOR LANDINGS - ELECTRICAL DEMOLITION PLANS | |
| ST OF LICENSURE: FL | | | FILE NO. 302-6058-043 SIZE DWG. NO. E 79K39665 REV | |
| LICENSE NO: | | | PROJ. NO. PCN 99000.5 SHEET 29 OF | |
| APPROVED: | | | | |
| JOHN KERCSMAR | | | | |
| MIKE HARTNETT | | | | |

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PLATFORM D TOWER E 1
SCALE: NTS ED-100 ED-500



PLATFORM D TOWER E 2
SCALE: NTS ED-100 ED-500



PLATFORM D TOWER F 3
SCALE: NTS ED-100 ED-500



PLATFORM D TOWER F 4
SCALE: NTS ED-100 ED-500



PLATFORM D TOWER F 5
SCALE: NTS ED-100 ED-500



PLATFORM B TOWER E 6
SCALE: NTS ED-100 ED-500



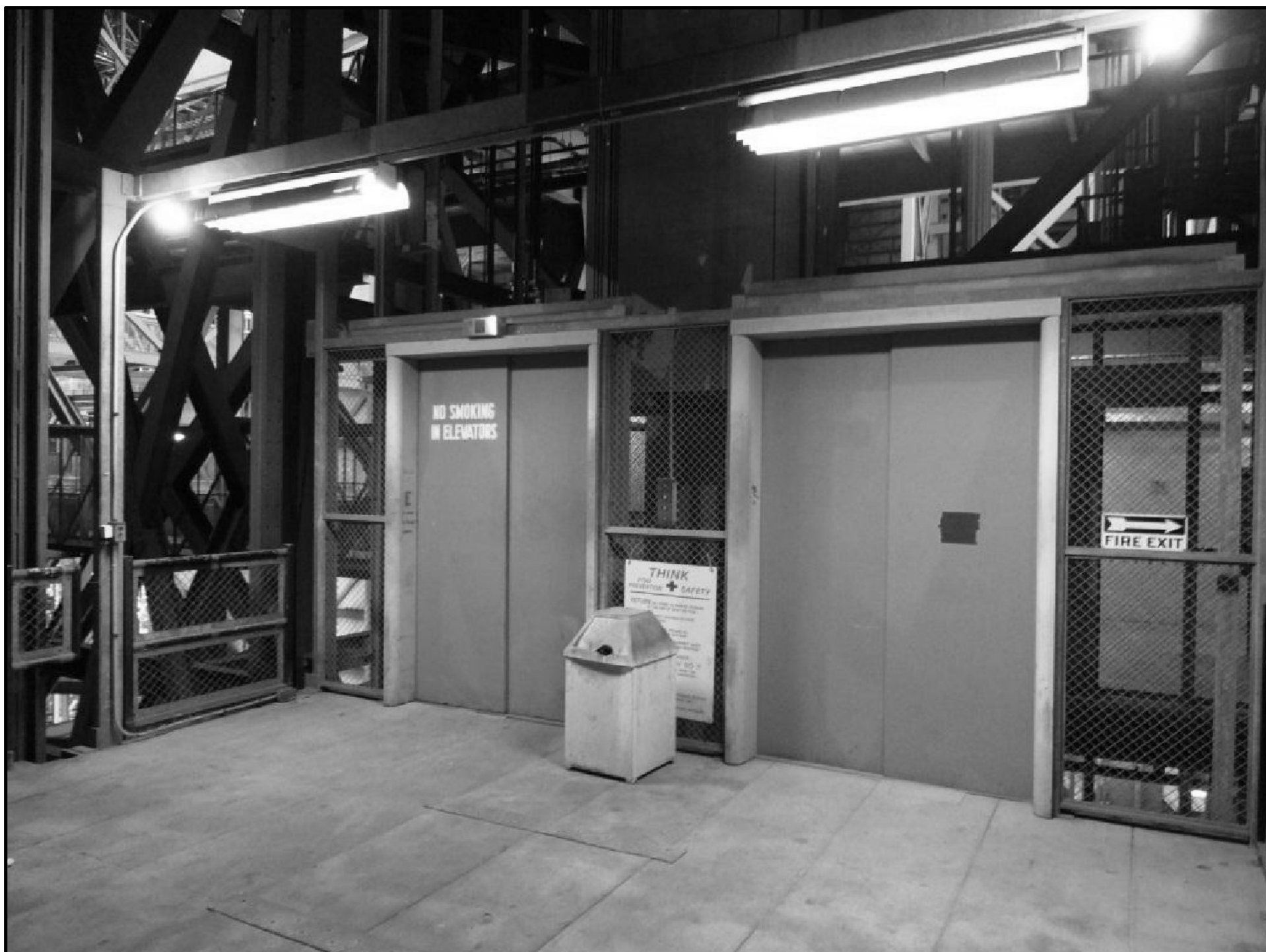
PLATFORM B TOWER F 7
SCALE: NTS ED-100 ED-500



PLATFORM E TOWER E 8
SCALE: NTS ED-101 ED-500



PLATFORM E TOWER F 9
SCALE: NTS ED-101 ED-500



PLATFORM E TOWER F 10
SCALE: NTS ED-101 ED-500



PLATFORM C TOWER E 11
SCALE: NTS ED-101 ED-500

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| DRAWN | JOSEPH HAUER | 08-20-2013 | | |
| CHECKED | DANIEL VIGANT | 08-20-2013 | | |
| SUBMITTED | ARCHING OF RECORD | | | |
| ST OF LICENSE | FL | | | |
| LICENSE NO: | | | | |
| APPROVED: | | | | |
| JOHN KERCSMAR | | | | |
| MIKE HARTNETT | | | | |
| FILE NO. | 302-6058-043 | SIZE | DWG. NO. | REV |
| PROJ. NO. | PCN 99000.5 | | 79K39665 | |
| | | SHEET | 30 | OF |

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PLATFORM C TOWER E 1
SCALE:NTS ED-101 ED-501



PLATFORM C TOWER F 2
SCALE:NTS ED-101 ED-501



PLATFORM C TOWER F 3
SCALE:NTS ED-101 ED-501



PLATFORM C TOWER F 4
SCALE:NTS ED-101 ED-501



PLATFORM F TOWER E 5
SCALE:NTS ED-102 ED-501



PLATFORM F TOWER E 6
SCALE:NTS ED-102 ED-501



PLATFORM F TOWER E 7
SCALE:NTS ED-102 ED-501

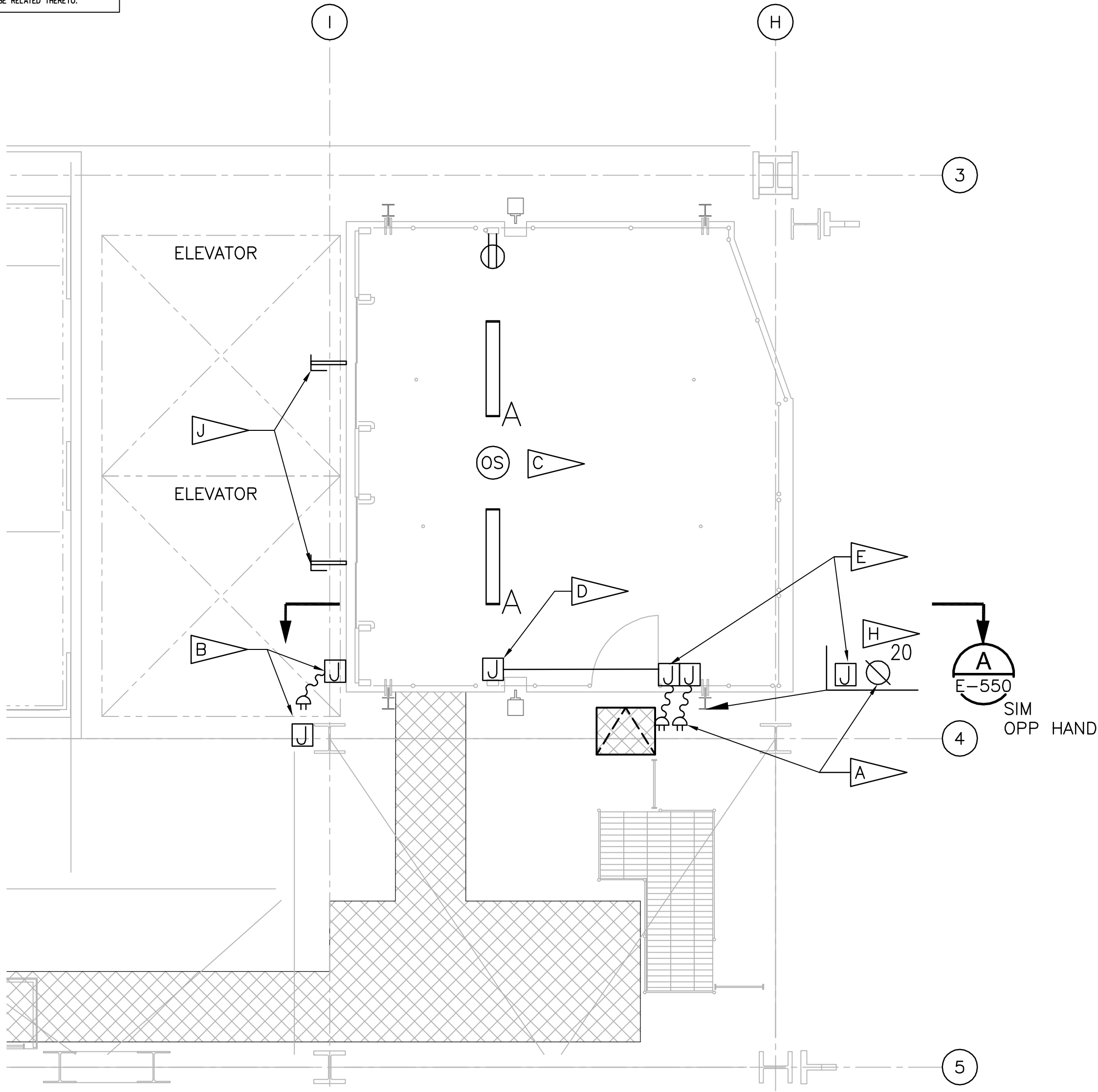
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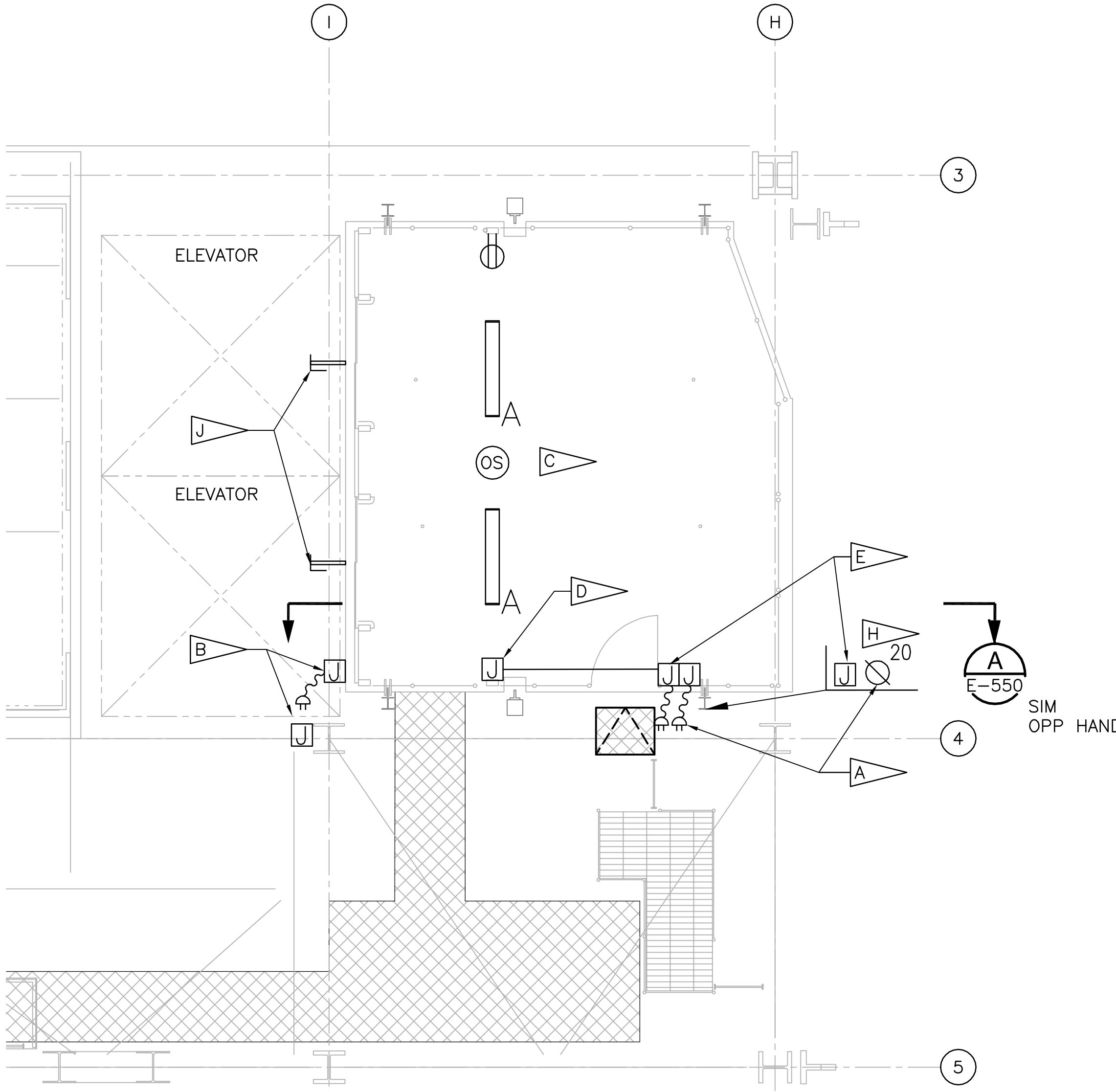
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| REVISIONS | | | | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JOHN F. KENNEDY SPACE CENTER, NASA KENNEDY SPACE CENTER, FLORIDA LAUNCH COMPLEX 39 VEHICLE ASSEMBLY BUILDING MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS ELECTRICAL DEMOLITION ELEVATOR PLATFORM - DETAILS 2 | |
| DRAWN: | JOSEPH HAUER | 08-20-2013 | | |
| CHECKED: | DANIEL VIGANT | 08-20-2013 | | |
| SUBMITTED ARCHIVING OF RECORD | KEVIN HARRIS | | | |
| ST OF LICENSURE: FL | LICENSE NO: | | | |
| APPROVED: | JOHN KERCSMAR | | FILE NO. 302-6058-043 | SIZE DWG. NO. E 79K39665 |
| MIKE HARTNETT | | | PROJ. NO. PCN 99000.5 | REV SHEET 31 OF |

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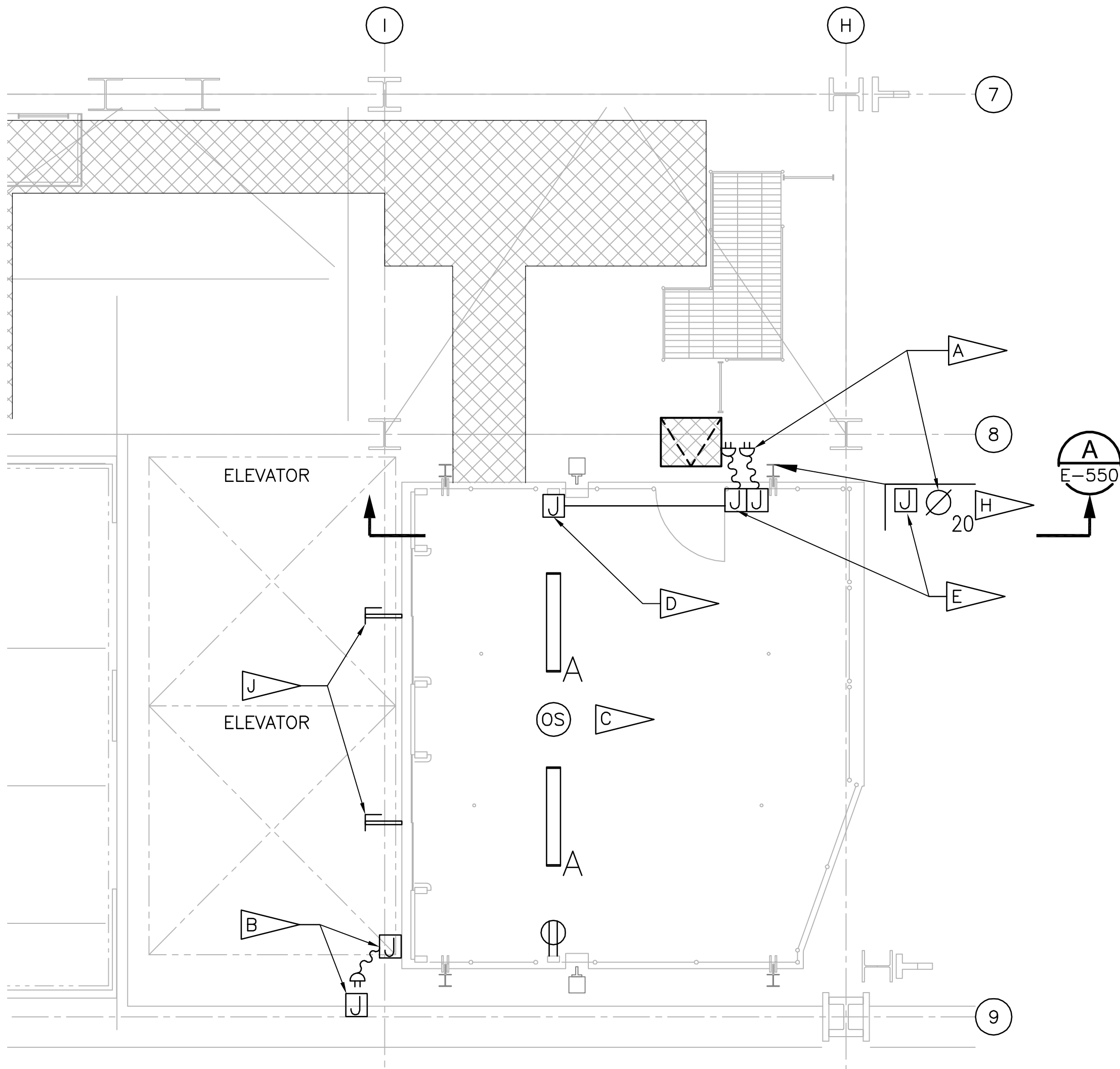
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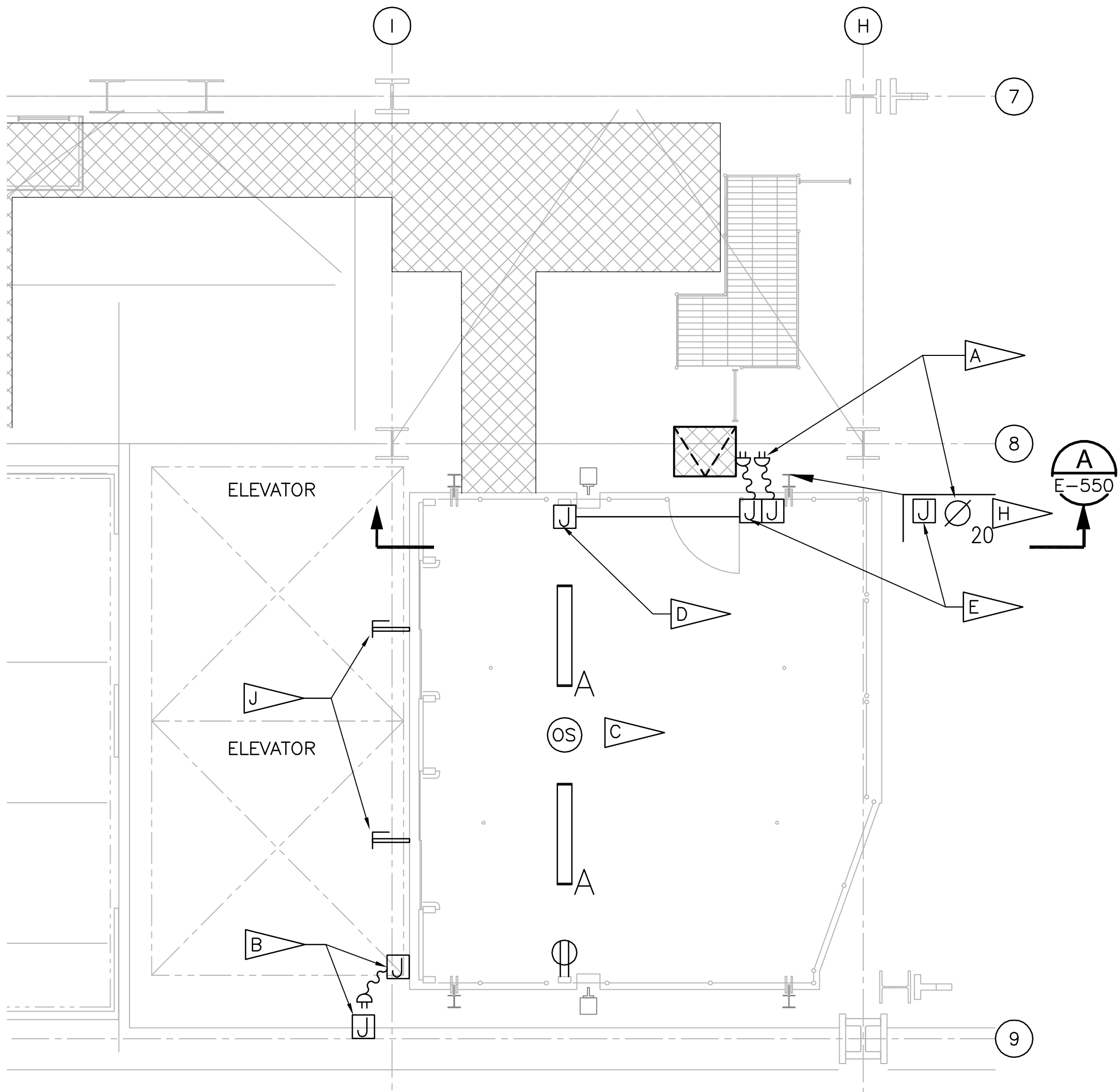
EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - TOWER F
SCALE: 1/4" = 1'-0"



NEW ELEVATOR LANDING PLATFORMS - TOWER F
SCALE: 1/4" = 1'-0"

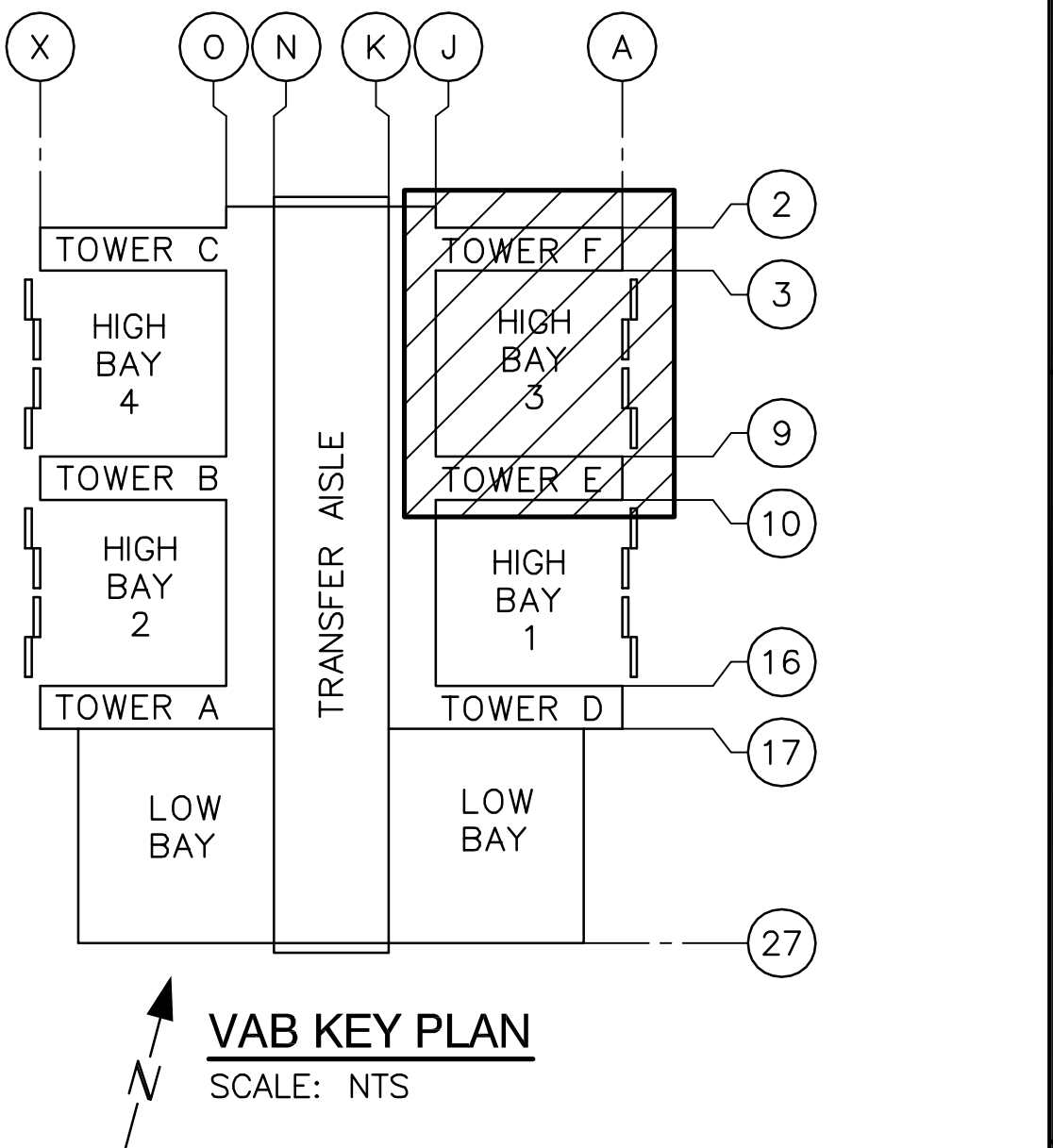


EXISTING ELEVATOR LANDING PLATFORMS TO BE MODIFIED - TOWER E
SCALE: 1/4" = 1'-0"



NEW ELEVATOR LANDING PLATFORMS - TOWER E
SCALE: 1/4" = 1'-0"

| POWER CIRCUITING | | |
|------------------------|----------------|----------------|
| MOUNT AT 48" ABOVE TOS | TOWER E | TOWER F |
| LEVELS 6, 7 & 8 | PANEL 7ELB-2 | PANEL 10FLB-16 |
| LEVELS 9, 10 & 11 | PANEL 11ELB-1 | PANEL 10FLB-18 |
| LEVELS 12, 13 & 14 | PANEL 11ELB-2 | PANEL 16FLB-9 |
| LEVELS 15, 16 & 17 | PANEL 16ELB-15 | PANEL 16FLB-11 |
| LEVELS 18, 19 & 20 | PANEL 20ELB-2 | PANEL 16FLB-13 |
| LEVELS 21, 22 & 23 | PANEL 20ELB-4 | PANEL 25FLB-14 |
| LEVELS 24, 25 & 26 | PANEL 24ELB-16 | PANEL 25FLB-16 |
| LEVELS 27, 28 & 29 | PANEL 30ELB-4 | PANEL 28ELB-12 |
| LEVELS 30, 31 & 32 | PANEL 32ELB-1 | PANEL 32FLB-2 |
| LEVELS 33 & 34 | PANEL 32ELB-3 | PANEL 32FLB-10 |

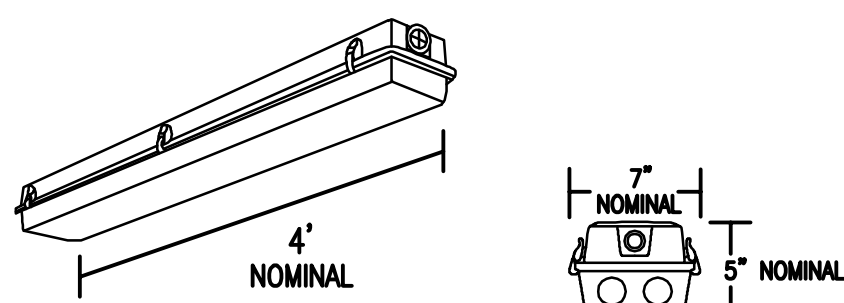


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1/4 IN = 1 FT
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- SPECIFIC NOTES:**
- PROVIDE NEMA L5-20R RECEPTACLES SUPPORTED FROM COLUMN. LOCATE RECEPTACLES AT 48" ABOVE TOS BEGINNING WITH LEVEL 6 THRU 34. MATING OF POWER SHALL BE FROM FLIP PLATFORM ACCESS (NIC). PROVIDE MATING PLUG WITH 30' SLACK CABLE, YELLOW INSULATED TYPE SOOW. PROVIDE CORD GRIP SUPPORT AT ELEVATOR PLATFORM POWER JUNCTION BOX AND AT MATING RECEPTACLE TO SUPPORT SLACK CABLE.
 - COORDINATE ELEVATOR PLATFORM ELEVATOR CONTROL REQUIREMENTS WITH SPECIFICATIONS AND EXISTING ELEVATOR MACHINERY. FOR EACH ELEVATOR PLATFORM, PROVIDE 30' SLACK MULTI-CONDUCTOR CONTROL CABLE FOR INTERFACING WITH THE EXISTING/ REWORKED ELEVATOR CONTROL RISER. CONNECTIONS SHALL BE PERFORMED WITH LOCKING TYPE PIN AND SLEEVE CONTROL CABLE PLUGS AND MATCHING RECEPTACLES. COORDINATE THE ELEVATOR CONTROLS SUCH THAT A PROVIDED ELEVATOR PLATFORM PIN AND SLEEVE RECEPTACLE IS INSTALLED ALONG THE ELEVATOR CONTROL RISER AT EVERY OTHER FLOOR FOR INTERFACING THE PLATFORM ELEVATOR CONTROL REQUIREMENTS (I.E. CALL STATIONS, DIRECTION INDICATORS AND HATCHWAY DOOR CONTROLS). PROVIDE MATING PLUG AND STRAIN RELIEF FITTINGS AT PLATFORM JUNCTION BOX FOR INTERFACING WITH ELEVATOR CONTROL RISER. SERIAL CIRCUITING ALONG THE ELEVATOR RISER SHALL BE PROVIDED WITH SHORTING PLUGS AS REQUIRED FOR PROPER OPERATION. ACCESS FOR MATING AND DEMATING ELEVATOR CONTROLS SHALL BE FROM ELEVATOR CAR TOPS AND SHALL BE PERFORMED BY QUALIFIED ELEVATOR TECHNICIANS ONLY.
 - PROVIDE TWO TYPE A LIGHT FIXTURE WITH OCCUPANCY SENSOR, MOUNTED TO THE STRUCTURAL TUBE FRAMING OF THE ELEVATOR PLATFORM. POWER FOR LIGHTING AND CONVENIENCE RECEPTACLE IS SHARED AND SUPPLIED FROM FACILITY MOUNTED NEMA L5-20R MENTIONED IN NOTE 'A'.
 - PROVIDE EMERGENCY STOP RECEPTACLE AND JUNCTION BOX TO BE USED FOR ELEVATOR PLATFORM HOIST EMERGENCY STOP PENDANT INTERFACE. SEE DETAIL ON E-550 FOR CLARIFICATION.
 - PROVIDE HOIST EMERGENCY STOP CABLING, CORD PLUG AND FACILITY INTERFACE RISER. FACILITY INTERFACE RISER SHALL CONSIST OF EMERGENCY STOP RECEPTACLES AT 48" ABOVE TOS BEGINNING WITH LEVEL 6 THRU 34. MATING OF EMERGENCY STOP INTERFACE SHALL BE ADJACENT TO POWER INTERFACE AND BE FROM FLIP PLATFORM ACCESS (NIC). PROVIDE MATING PLUG WITH 30' SLACK CABLE, YELLOW INSULATED TYPE SOOW. PROVIDE CORD GRIP SUPPORT AT ELEVATOR PLATFORM E-STOP JUNCTION BOX AND AT MATING RECEPTACLE TO SUPPORT SLACK CABLE. EXTEND FACILITY RISER EMERGENCY STOP CIRCUITING FROM LEVEL 34, TO ELEVATOR HOIST CONTROLLER (NIC). PROVIDE INTERFACE WITH EXISTING EMERGENCY STOP CIRCUIT AND CONTROL CIRCUIT FOR PENDANT CONTINUITY INDICATION.
 - SEE PANEL SCHEDULES ON SHEETS E-670 AND E-671 FOR INCLUSION OF NEW CIRCUITRY SHOWN IN TABLE. PANELS IN TOWER E ARE LOCATED BETWEEN COLUMN LINES 10 AND 11 WEST OF TOWER E HIGH BAY 1 ELEVATOR LOBBY. PANELS IN TOWER F ARE LOCATED BETWEEN COLUMN LINES 3 AND 4 WEST OF TOWER F ELEVATOR LOBBY.
 - SLACK CABLES SHALL BE FREE TO TRAVEL 30'-0" UP OR DOWN FROM THEIR INSTALLED LOCATIONS. INSTALLATION METHODS SHALL PREVENT CABLES BEING ROUTED OVER SHARP EDGES AND SHALL BE FREE OF OBSTRUCTIONS THROUGHOUT PLATFORM TRAVEL OF 30'-0" OR LESS.
 - ACCESS FOR MATING OR DEMATING POWER AND HOIST EMERGENCY STOP CIRCUITING SHALL BE FROM FLIP PLATFORM ACCESS.
 - REPLACE EXISTING FIXED POSITION ELEVATOR VANES WITHIN THE ELEVATOR SHAFT FOR THE OPERATIONS OF REAR (VEHICLE) PLATFORMS. NEW VANES SHALL BE PROVIDE FOR EACH CAR ON EACH MODIFIED OR NEW ELEVATOR PLATFORM. SUPPORT VANES FROM ADJUSTABLE PLATFORMS STRUCTURE. COORDINATE MOUNTING AND LOCATIONS WITH CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE FOR ELEVATORS.

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|-------------------------------|------|-------------|---|----------|
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| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | |
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| CHECKED: DANIEL VIGANT | | 08-20-2013 | KENNEDY SPACE CENTER, FLORIDA | |
| SUBMITTED ARCHIVING OF RECORD | | | LAUNCH COMPLEX 39 | |
| ST OF LICENSURE: FL | | | VEHICLE ASSEMBLY BUILDING | |
| LICENSE NO: | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH BAY 3 FOR SLS - ELEVATOR LANDINGS | |
| APPROVED: | | | ELEVATOR LANDINGS - ELECTRICAL PLAN | |
| JOHN KERCSMAR | | | FILE NO. 302-6058-043 | |
| MIKE HARTNETT | | | SIZE DWG. NO. E 79K39665 | |
| | | | PROJ. NO. PCN 99000.5 | |
| | | | SHEET 32 OF | |

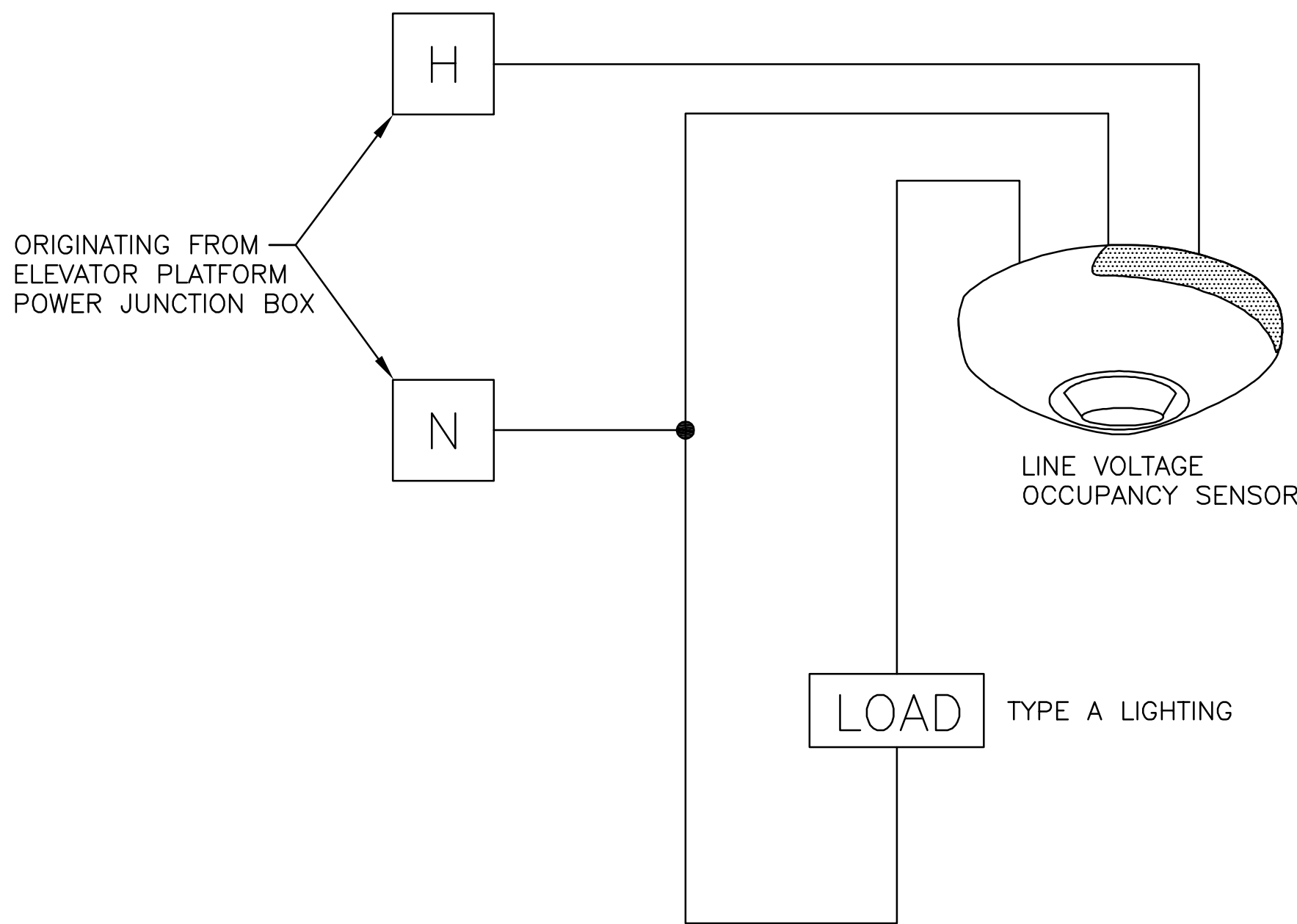
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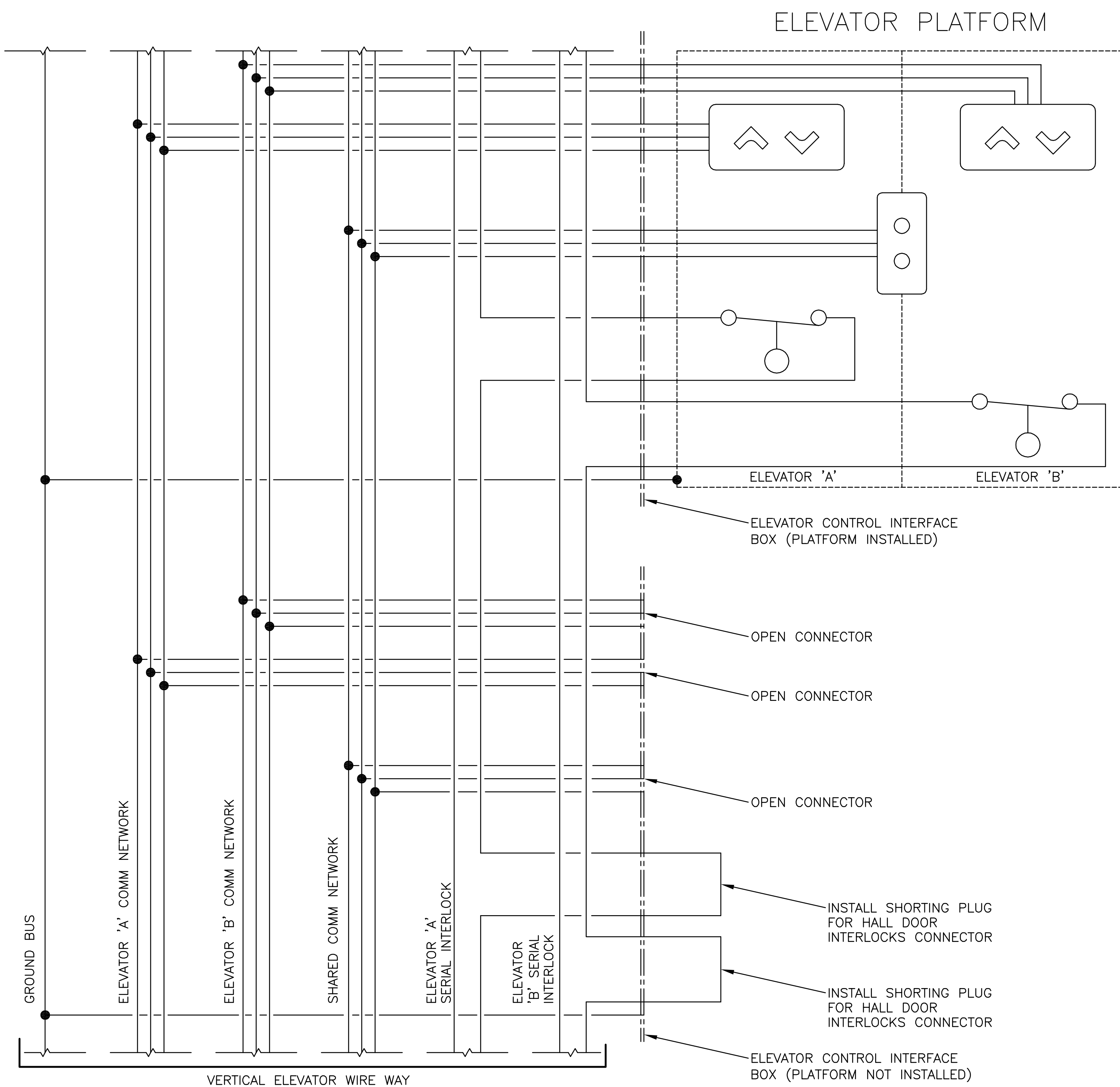
LUMINAIRE REQUIREMENTS:

1. HOUSING - ONE-PIECE, IMPACT-RESISTANT, FIBERGLASS REINFORCED POLYESTER WITH ENCLOSED COLD-ROLLED STEEL WIREWAY.
2. FINISH - STEEL REFLECTOR WITH MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
3. LENS - 100% CLEAR ACRYLIC/DR OPTICAL DIFFUSER. STIPPLED INTERIOR SURFACES AND SMOOTH EXTERIOR. CLOSED CELL NEOPRENE GASKET WITH CAPTIVE NONMETALLIC SNAP ACTION CAM LATCHES TO SECURE LENS TO HOUSING.
4. LAMPS - LINEAR FLUORESCENT T5, TYPICALLY WITH (2) 54W HIGH OUTPUT LAMPS.
5. BALLAST - CLASS P, THERMALLY-PROTECTED, HIGH POWER FACTOR (.95), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
6. CERTIFICATION - UL LISTED AND LABELED. SUITABLE FOR DAMP OR WET LOCATION.
7. INSTALLATION - SURFACE CEILING MOUNTING ON ELEVATOR STRUCTURAL STEEL TUBE FRAMING (SIMILAR TO EXISTING).

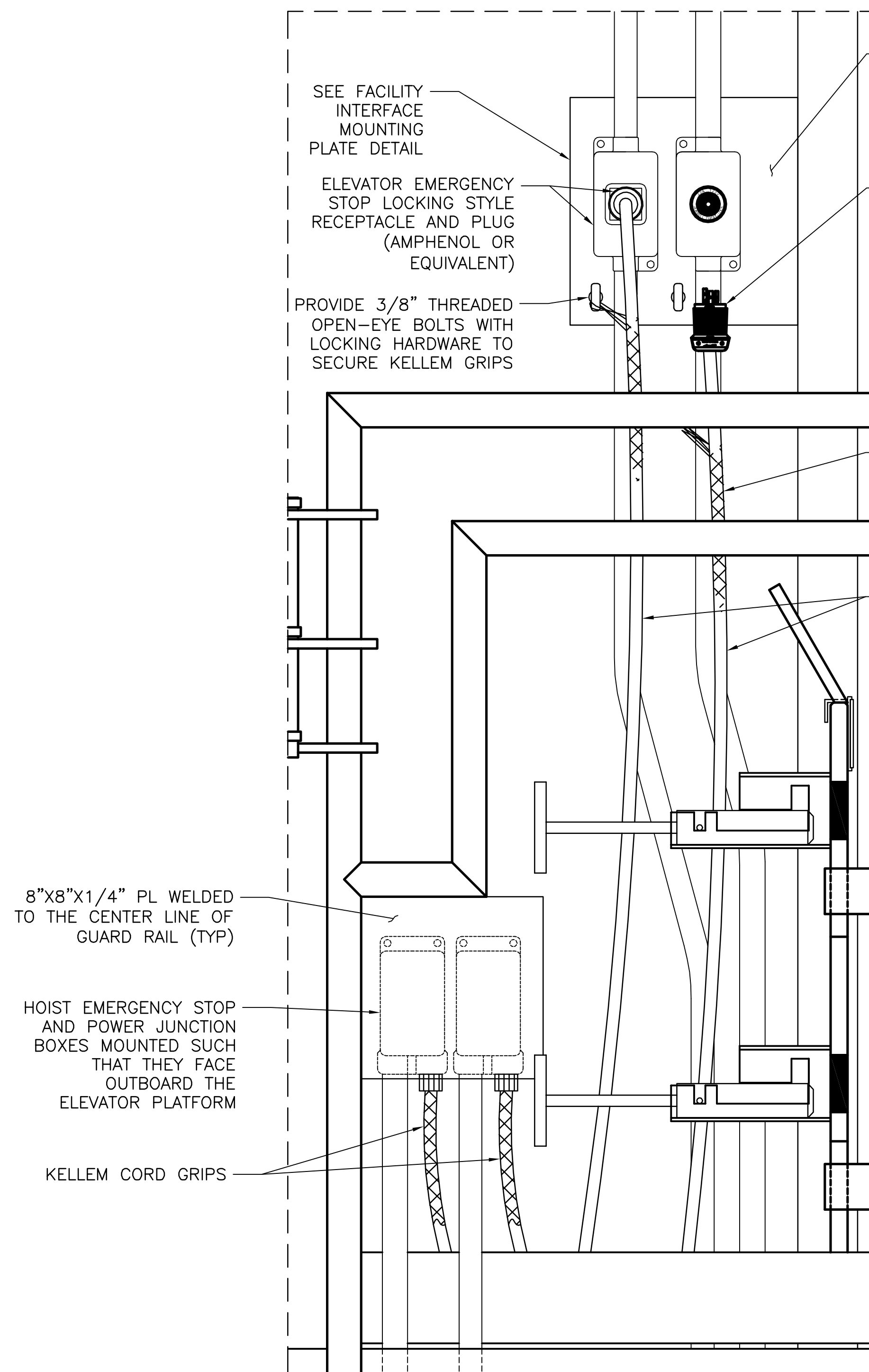
TYPE A: WET LOCATION INDUSTRIAL FLUORESCENT
SCALE: NTS



TYPICAL ELEVATOR PLATFORM LIGHTING CONTROL DETAIL
SCALE: NTS

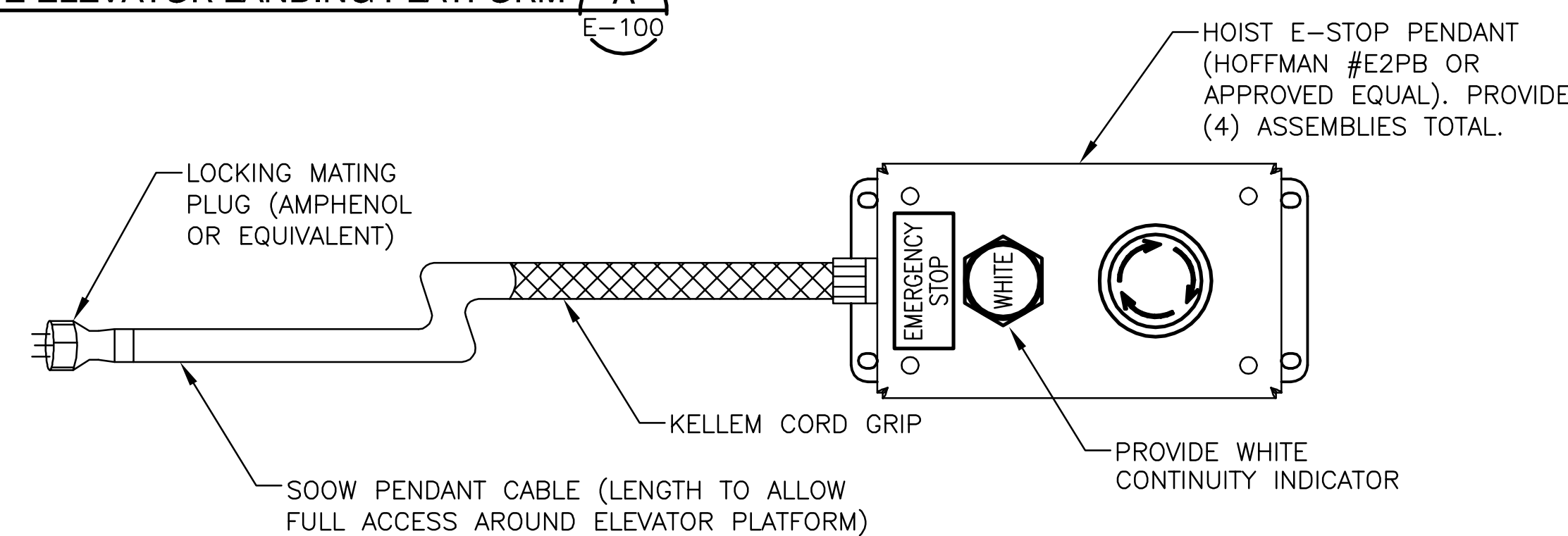
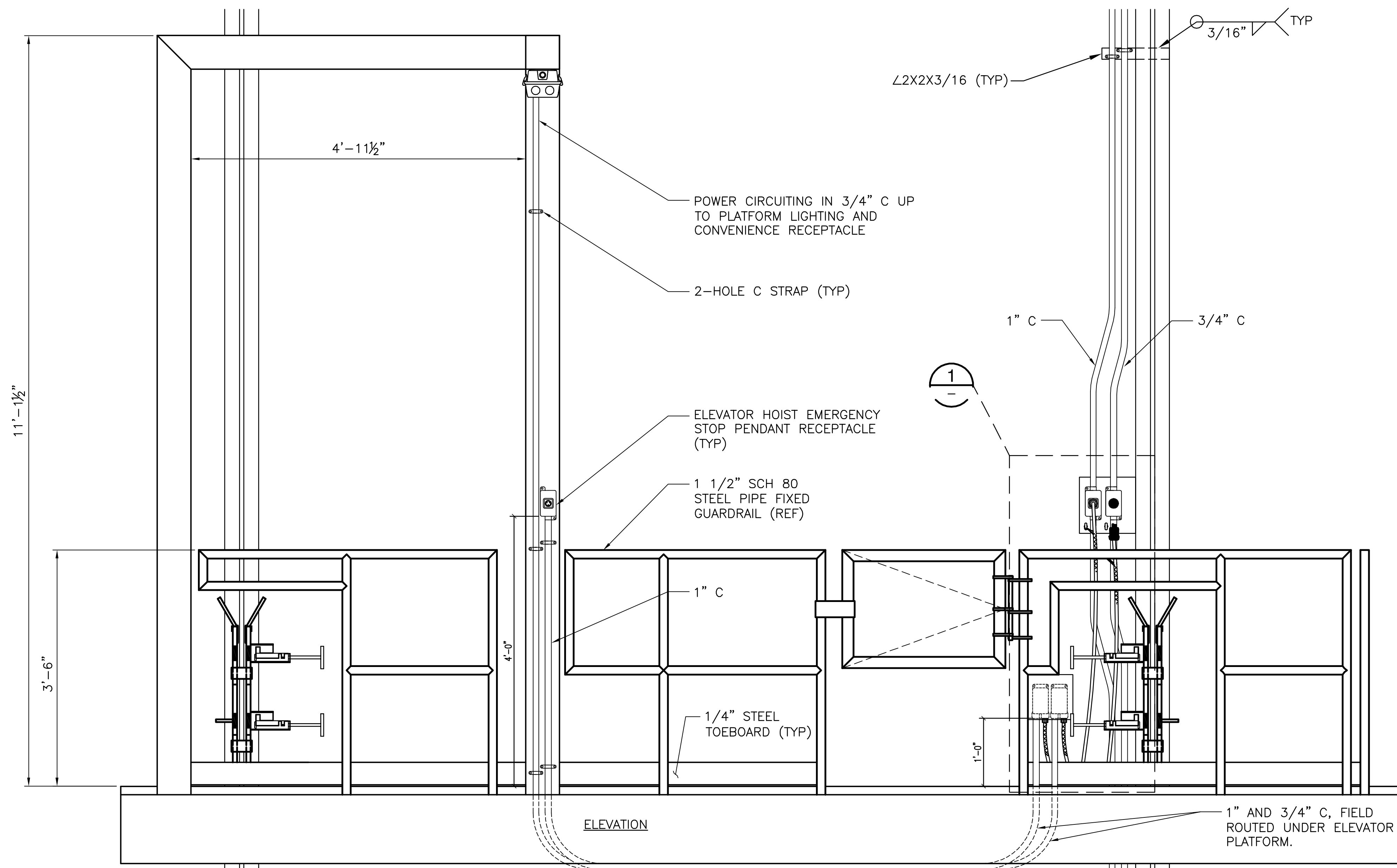


TYPICAL ELEVATOR CONTROL INTERFACE WIRING DIAGRAM
SCALE: NTS

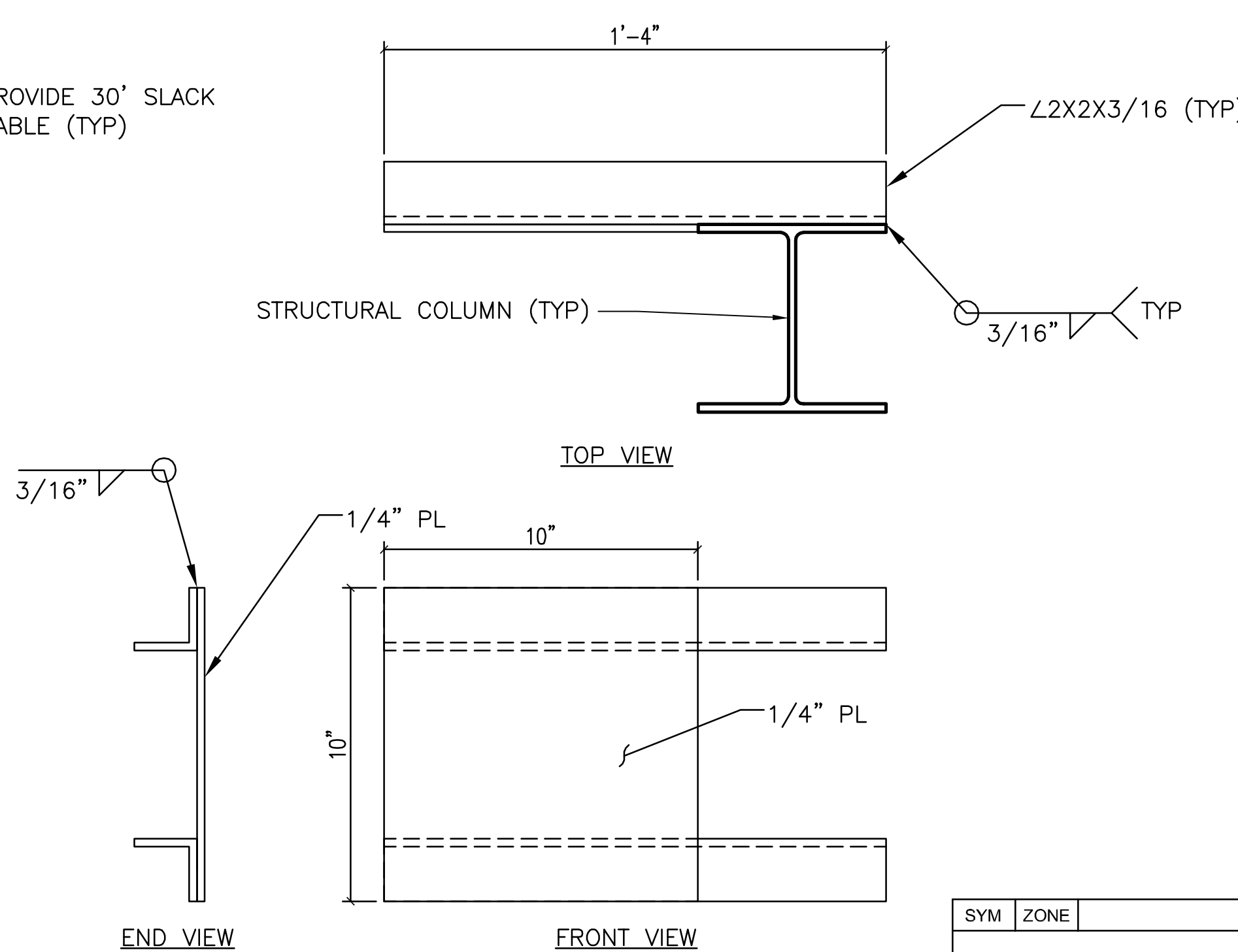


ENLARGED VIEW
SCALE: 3" = 1'-0"

ELECTRICAL INTERFACE ELEVATOR LANDING PLATFORM
SCALE: 1" = 1'-0"



HOIST EMERGENCY STOP PENDANT DETAIL
SCALE: NTS



FACILITY INTERFACE MOUNTING PLATE DETAIL
SCALE: NTS

| SYM | ZONE | DESCRIPTION | DATE | APPROVAL |
|-------------------------------|------|-------------------|---|----------|
| REVISIONS | | | | |
| SIGNATURES | | DATE | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | |
| DRAWN: JOSEPH HAUER | | 06-20-2013 | JOHN F. KENNEDY SPACE CENTER, NASA | |
| CHECKED: DANIEL VIGANT | | 06-20-2013 | KENNEDY SPACE CENTER, FLORIDA | |
| SUBMITTED ARCHIVING OF RECORD | | | LAUNCH COMPLEX 39 | |
| KEVIN HARRIS | | | VEHICLE ASSEMBLY BUILDING | |
| ST OF LICENSURE: FL | | | MODIFY VEHICLE ASSEMBLY BUILDING HIGH | |
| LICENSE NO: | | | BAY 3 FOR SLS - ELEVATOR LANDINGS | |
| APPROVED: | | | ELEVATOR PLATFORM - | |
| JOHN KERCSMAR | | | ELECTRICAL DETAILS | |
| MIKE HARTNETT | | | E-550 | |
| FILE NO. 302-6058-043 | | SIZE: 10WGS NO. E | 79K39665 | REV |
| PROJ. NO. PCN 99000.5 | | SHEET 33 OF | | |

WHEN PRINTED FULL SIZE, THIS SHEET IS 34"x44"
THIS COMPUTER DRAWING WAS
CREATED IN AUTOCAD AND
FILED UNDER THE DRAWING NUMBER

E-670

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E-671

| PANEL INDEX | |
|-------------|-------|
| 32ELB | 10FLB |
| 16FLB | 25FLB |
| 28FLB | 32FLB |